ATOM	4390	NE2	HIS A 558	58.471	63.378	-18.624	1.00	0.00	N
ATOM	4391	N	ASN A 559	56.963	64.299	-22.286	1.00	0.00	N
ATOM	4392	CA	ASN A 559	55.820	63.414	-22.497	1.00	0.00	C
ATOM	4393	C	ASN A 559	55.835	62.309	-21.440	1.00	0.00	C
ATOM	4394	O	ASN A 559	56.575	61.333	-21.554	1.00	0.00	O
ATOM	4395	CB	ASN A 559	55.878	62.807	-23.904	1.00	0.00	C
ATOM	4396	CG	ASN A 559	54.865	61.691	-24.102	1.00	0.00	C
ATOM	4397	OD1	ASN A 559	53.762	61.735	-23.558	1.00	0.00	O
ATOM	4398	ND2	ASN A 559	55.233	60.690	-24.899	1.00	0.00	N
ATOM	4399	N	THR A 560	55.010	62.459	-20.411	1.00	0.00	N
ATOM	4400	CA	THR A 560	54.986	61.478	-19.331	1.00	0.00	C
ATOM	4401	C	THR A 560	54.388	60.116	-19.714	1.00	0.00	C
ATOM	4402	O	THR A 560	54.599	59.119	-19.010	1.00	0.00	O
ATOM	4403	CB	THR A 560	54.241	62.050	-18.106	1.00	0.00	C
ATOM	4404	OG1	THR A 560	54.558	61.265	-16.951	1.00	0.00	O
ATOM	4405	CG2	THR A 560	52.733	62.046	-18.340	1.00	0.00	C
ATOM ·	4406	N	LEU A 561	53.666	60.070	-20.832	1.00	0.00	N
ATOM	4407	CA	LEU A 561	53.043	58.827	-21.301	1.00	0.00	C
ATOM	4408	C	LEU A 561	54.070	57.891	-21.953	1.00	0.00	C
ATOM	4409	O	LEU A 561	54.996	58.343	-22.631	1.00	0.00	O
ATOM	4410	CB	LEU A 561	51.917	59.149	-22.291	1.00	0.00	C
ATOM	4411	CG	LEU A 561	50.794	60.044	-21.742	1.00	0.00	C
ATOM	4412	CD1	LEU A 561	49.725	60.258	-22.811	1.00	0.00	C
ATOM	4413	CD2	LEU A 561	50.180	59.391	-20.502	1.00	0.00	C
ATOM	4414	N	PRO A 562	53.908	56.568	-21.758	1.00	0.00	N
ATOM	4415	CA	PRO A 562	54.821	55.562	-22.312	1.00	0.00	C
ATOM	4416	C	PRO A 562	54.688	55.193	-23.789	1.00	0.00	C
ATOM	4417	O	PRO A 562	54.857	54.030	-24.159	1.00	0.00	O
ATOM	4418	CB	PRO A 562	54.604	54.367	-21.390	1.00	0.00	C
ATOM	4419	CG	PRO A 562	53.138	54.455	-21.110	1.00	0.00	C
ATOM	4420	CD	PRO A 562	52.921	55.938	-20.861	1.00	0.00	C
ATOM	4421	N	HIS A 563	54.380	56.175	-24.629	1.00	0.00	N
ATOM	4422	CA	HIS A 563	54.293	55.949	-26.068	1.00	0.00	C
ATOM	4423	C	HIS A 563	54.628	57.246	-26.787	1.00	0.00	C
ATOM	4424	O	HIS A 563	54.464	58.329	-26.226	1.00	0.00	O
ATOM	4425	CB	HIS A 563	52.900	55.440	-26.497	1.00	0.00	C
ATOM	4426	CG	HIS A 563	51.756	56.310	-26.072	1.00	0.00	C
ATOM	4427	ND1	HIS A 563	50.972	56.026	-24.974	1.00	0.00	N
ATOM	4428	CD2	HIS A 563	51.232	57.430	-26.627	1.00	0.00	C
ATOM	4429	CE1	HIS A 563	50.013	56.930	-24.873	1.00	0.00	C
ATOM	4430	NE2	HIS A 563	50.150	57.793	-25.863	1.00	0.00	N
ATOM	4431	N	TRP A 564	55.134	57.140	-28.010	1.00	0.00	N
ATOM	4432	CA	TRP A 564	55.460	58.335	-28.772	1.00	0.00	C
ATOM	4433	C	TRP A 564	54.192	59.158	-28.866	1.00	0.00	C
ATOM	4434	O	TRP A 564	53.106	58.612	-29.049	1.00	0.00	O
ATOM	4435	CB	TRP A 564	55.935	57.978	-30.182	1.00	0.00	C
ATOM	4436	CG	TRP A 564	57.368	57.567	-30.238	1.00	0.00	C
ATOM	4437	CD1	TRP A 564	57.868	56.309	-30.089	1.00	0.00	C
ATOM	4438	CD2	TRP A 564	58.493	58.433	-30.410	1.00	0.00	C
ATOM	4439	NE1	TRP A 564	59.242	56.335	-30.155	1.00	0.00	N
ATOM	4440	CE2	TRP A 564	59.651	57.628	-30.351	1.00	0.00	C
ATOM	4441	CE3	TRP A 564	58.636	59.815	-30.606	1.00	0.00	C
ATOM	4442	CZ2	TRP A 564	60.940	58.157	-30.483	1.00	0.00	C
ATOM	4443	CZ3	TRP A 564	59.920	60.343	-30.737	1.00	0.00	C
ATOM	4444	CH2	TRP A 564	61.054	59.513	-30.675	1.00	0.00	C
ATOM	4445	N	ARG A 565	54.318	60.470	-28.735	1.00	0.00	N
ATOM	4446	CA	ARG A 565	53.135	61.308	-28.818	1.00	0.00	C
ATOM	4447	C	ARG A 565	53.384	62.625	-29.520	1.00	0.00	C
ATOM	4448	O	ARG A 565	54.430	63.254	-29.349	1.00	0.00	O
ATOM	4449	CB	ARG A 565	52.558	61.574	-27.417	1.00	0.00	C
ATOM	4450	CG	ARG A 565	51.349	62.515	-27.423	1.00	0.00	C

ATOM	4451	CD	ARG	A	565	50.530	62.470	-26.130	1.00	0.00	C
ATOM	4452	NE	ARG	A	565	51.325	62.757	-24.941	1.00	0.00	N
ATOM	4453	CZ	ARG	A	565	50.820	63.218	-23.799	1.00	0.00	C
ATOM	4454	NH1	ARG	A	565	49.514	63.454	-23.691	1.00	0.00	N
ATOM	4455	NH2	ARG	A	565	51.618	63.440	-22.764	1.00	0.00	N
ATOM	4456	N	GLU	A	566	52.415	63.015	-30.340	1.00	0.00	N
ATOM	4457	CA	GLU	A	566	52.466	64.282	-31.044	1.00	0.00	C
ATOM	4458	C	GLU	A	566	51.327	65.098	-30.457	1.00	0.00	C
ATOM	4459	O	GLU	A	566	50.261	64.560	-30.147	1.00	0.00	O
ATOM	4460	CB	GLU	A	566	52.237	64.107	-32.546	1.00	0.00	C
ATOM	4461	CG	GLU	A	566	53.336	63.372	-33.279	1.00	0.00	C
ATOM	4462	CD	GLU	A	566	53.134	63.414	-34.784	1.00	0.00	C
ATOM	4463	OE1	GLU	A	566	51.995	63.172	-35.237	1.00	0.00	O
ATOM	4464	OE2	GLU	A	566	54.112	63.687	-35.511	1.00	0.00	O
ATOM	4465	N	GLN	A	567	51.560	66.392	-30.289	1.00	0.00	N
ATOM	4466	CA	GLN	A	567	50.551	67.284	-29.741	1.00	0.00	C
ATOM	4467	C	GLN	A	567	50.946	68.707	-30.086	1.00	0.00	C
ATOM	4468	O	GLN	A	567	52.131	69.053	-30.060	1.00	0.00	O
ATOM	4469	CB	GLN	A	567	50.472	67.148	-28.214	1.00	0.00	C
ATOM	4470	CG	GLN	A	567	49.464	68.103	-27.572	1.00	0.00	C
ATOM	4471	CD	GLN	A	567	49.787	68.434	-26.122	1.00	0.00	C
ATOM	4472	OE1	GLN	A	567	49.685	67.586	-25.235	1.00	0.00	O
ATOM	4473	NE2	GLN	A	567	50.186	69.679	-25.880	1.00	0.00	N
ATOM	4474	N	LEU	A	568	49.966	69.533	-30.427	1.00	0.00	N
ATOM	4475	CA	LEU	A	568	50.273	70.920	-30.732	1.00	0.00	C
ATOM	4476	C	LEU	A	568	50.583	71.615	-29.412	1.00	0.00	C
ATOM	4477	O	LEU	A	568	49.939	71.353	-28.395	1.00	0.00	O
ATOM	4478	CB	LEU	A	568	49.086	71.619	-31.403	1.00	0.00	C
ATOM	4479	CG	LEU	A	568	48.664	71.207	-32.817	1.00	0.00	C
ATOM	4480	CD1	LEU	A	568	47.653	72.223	-33.345	1.00	0.00	C
ATOM	4481	CD2	LEU	A	568	49.881	71.170	-33.735	1.00	0.00	C
ATOM	4482	N	VAL	A	569	51.585	72.485	-29.429	1.00	0.00	N
ATOM	4483	CA	VAL	A	569	51.966	73.246	-28.248	1.00	0.00	C
ATOM	4484	C	VAL	A	569	52.069	74.705	-28.678	1.00	0.00	C
ATOM	4485	O	VAL	A	569	52.361	74.990	-29.836	1.00	0.00	O
ATOM	4486	CB	VAL	A	569	53.331	72.778	-27.683	1.00	0.00	C
ATOM	4487	CG1	VAL	A	569	53.198	71.370	-27.099	1.00	0.00	C
ATOM	4488	CG2	VAL	A	569	54.385	72.797	-28.781	1.00	0.00	C
ATOM	4489	N	ASP	A	570	51.804	75.629	-27.764	1.00	0.00	N
ATOM	4490	CA	ASP	A	570	51.894	77.042	-28.108	1.00	0.00	C
ATOM	4491	C	ASP	A	570	52.699	77.818	-27.077	1.00	0.00	C
ATOM	4492	O	ASP	A	570	52.802	77.408	-25.917	1.00	0.00	O
ATOM	4493	CB	ASP	A	570	50.491	77.649	-28.263	1.00	0.00	C
ATOM	4494	CG	ASP	A	570	49.738	77.748	-26.949	1.00	0.00	C
ATOM	4495	OD1	ASP	A	570	49.552	76.712	-26.282	1.00	0.00	O
ATOM	4496	OD2	ASP	A	570	49.325	78.867	-26.586	1.00	0.00	O
ATOM	4497	N	PHE	A	571	53.303	78.917	-27.522	1.00	0.00	N
ATOM	4498	CA	PHE	A	571	54.097	79.785	-26.656	1.00	0.00	C
ATOM	4499	C	PHE	A	571	53.817	81.227	-27.043	1.00	0.00	C
ATOM	4500	O	PHE	A	571	53.464	81.504	-28.187	1.00	0.00	O
ATOM	4501	CB	PHE	A	571	55.602	79.557	-26.841	1.00	0.00	C
ATOM	4502	CG	PHE	A	571	56.070	78.184	-26.475	1.00	0.00	C
ATOM	4503	CD1	PHE	A	571	56.026	77.151	-27.403	1.00	0.00	C
ATOM	4504	CD2	PHE	A	571	56.568	77.927	-25.202	1.00	0.00	C
ATOM	4505	CE1	PHE	A	571	56.477	75.876	-27.068	1.00	0.00	C
ATOM	4506	CE2	PHE	A	571	57.020	76.652	-24.858	1.00	0.00	C
ATOM	4507	CZ	PHE	A	571	56.972	75.627	-25.795	1.00	0.00	C
ATOM	4508	N	TYR	A	572	53.975	82.141	-26.091	1.00	0.00	N
ATOM	4509	CA	TYR	A	572	53.794	83.560	-26.376	1.00	0.00	C
ATOM	4510	C	TYR	A	572	55.150	84.083	-26.833	1.00	0.00	C
ATOM	4511	O	TYR	A	572	56.167	83.773	-26.214	1.00	0.00	O

	ATOM	4512	CB	TYR	A	572	53.376	84.336	-25.122	1.00	0.00	C
	ATOM	4513	CG	TYR	A	572	51.940	84.150	-24.683	1.00	0.00	C
	ATOM	4514	CD1	TYR	A	572	51.027	83.448	-25.468	1.00	0.00	C
	ATOM	4515	CD2	TYR	A	572	51.488	84.706	-23.485	1.00	0.00	C
5	ATOM	4516	CE1	TYR	A	572	49.698	83.304	-25.073	1.00	0.00	C
	ATOM	4517	CE2	TYR	A	572	50.161	84.570	-23.082	1.00	0.00	C
	ATOM	4518	CZ	TYR	A	572	49.273	83.869	-23.880	1.00	0.00	C
	ATOM	4519	OH	TYR	A	572	47.960	83.734	-23.487	1.00	0.00	O
	ATOM	4520	N	VAL	A	573	55.167	84.864	-27.911	1.00	0.00	N
10	ATOM	4521	CA	VAL	A	573	56.406	85.443	-28.433	1.00	0.00	C
	ATOM	4522	C	VAL	A	573	56.215	86.943	-28.684	1.00	0.00	C
	ATOM	4523	O	VAL	A	573	55.105	87.393	-28.950	1.00	0.00	O
	ATOM	4524	CB	VAL	A	573	56.848	84.757	-29.751	1.00	0.00	C
	ATOM	4525	CG1	VAL	A	573	57.301	83.327	-29.469	1.00	0.00	C
15	ATOM	4526	CG2	VAL	A	573	55.703	84.759	-30.750	1.00	0.00	C
	ATOM	4527	N	SER	A	574	57.299	87.709	-28.599	1.00	0.00	N
	ATOM	4528	CA	SER	A	574	57.234	89.160	-28.783	1.00	0.00	C
	ATOM	4529	C	SER	A	574	57.206	89.611	-30.242	1.00	0.00	C
	ATOM	4530	O	SER	A	574	57.254	90.809	-30.528	1.00	0.00	O
20	ATOM	4531	CB	SER	A	574	58.413	89.828	-28.070	1.00	0.00	C
	ATOM	4532	OG	SER	A	574	59.641	89.470	-28.675	1.00	0.00	O
	ATOM	4533	N	SER	A	575	57.140	88.655	-31.160	1.00	0.00	N
	ATOM	4534	CA	SER	A	575	57.090	88.967	-32.582	1.00	0.00	C
	ATOM	4535	C	SER	A	575	56.345	87.885	-33.340	1.00	0.00	C
25	ATOM	4536	O	SER	A	575	56.420	86.708	-32.992	1.00	0.00	O
	ATOM	4537	CB	SER	A	575	58.496	89.093	-33.165	1.00	0.00	C
	ATOM	4538	OG	SER	A	575	58.437	89.188	-34.581	1.00	0.00	O
	ATOM	4539	N	PRO	A	576	55.601	88.272	-34.385	1.00	0.00	N
	ATOM	4540	CA	PRO	A	576	54.855	87.291	-35.176	1.00	0.00	C
30	ATOM	4541	C	PRO	A	576	55.781	86.604	-36.177	1.00	0.00	C
	ATOM	4542	O	PRO	A	576	55.441	85.571	-36.745	1.00	0.00	O
	ATOM	4543	CB	PRO	A	576	53.796	88.148	-35.859	1.00	0.00	C
	ATOM	4544	CG	PRO	A	576	54.547	89.428	-36.118	1.00	0.00	C
	ATOM	4545	CD	PRO	A	576	55.277	89.649	-34.805	1.00	0.00	C
35	ATOM	4546	N	PHE	A	577	56.960	87.187	-36.379	1.00	0.00	N
	ATOM	4547	CA	PHE	A	577	57.936	86.652	-37.321	1.00	0.00	C
	ATOM	4548	C	PHE	A	577	58.905	85.689	-36.641	1.00	0.00	C
	ATOM	4549	O	PHE	A	577	60.086	85.993	-36.459	1.00	0.00	O
	ATOM	4550	CB	PHE	A	577	58.701	87.806	-37.967	1.00	0.00	C
40	ATOM	4551	CG	PHE	A	577	57.812	88.798	-38.663	1.00	0.00	C
	ATOM	4552	CD1	PHE	A	577	58.065	90.163	-38.571	1.00	0.00	C
	ATOM	4553	CD2	PHE	A	577	56.716	88.368	-39.406	1.00	0.00	C
	ATOM	4554	CE1	PHE	A	577	57.237	91.088	-39.208	1.00	0.00	C
	ATOM	4555	CE2	PHE	A	577	55.881	89.284	-40.049	1.00	0.00	C
45	ATOM	4556	CZ	PHE	A	577	56.144	90.647	-39.948	1.00	0.00	C
	ATOM	4557	N	VAL	A	578	58.384	84.521	-36.278	1.00	0.00	N
	ATOM	4558	CA	VAL	A	578	59.166	83.496	-35.603	1.00	0.00	C
	ATOM	4559	C	VAL	A	578	59.023	82.160	-36.322	1.00	0.00	C
	ATOM	4560	O	VAL	A	578	57.937	81.804	-36.779	1.00	0.00	O
50	ATOM	4561	CB	VAL	A	578	58.700	83.332	-34.133	1.00	0.00	C
	ATOM	4562	CG1	VAL	A	578	59.511	82.245	-33.435	1.00	0.00	C
	ATOM	4563	CG2	VAL	A	578	58.839	84.659	-33.399	1.00	0.00	C
	ATOM	4564	N	SER	A	579	60.126	81.428	-36.427	1.00	0.00	N
	ATOM	4565	CA	SER	A	579	60.115	80.126	-37.082	1.00	0.00	C
55	ATOM	4566	C	SER	A	579	60.629	79.072	-36.110	1.00	0.00	C
	ATOM	4567	O	SER	A	579	61.422	79.371	-35.217	1.00	0.00	O
	ATOM	4568	CB	SER	A	579	60.976	80.152	-38.351	1.00	0.00	C
	ATOM	4569	OG	SER	A	579	62.318	80.497	-38.063	1.00	0.00	O
	ATOM	4570	N	VAL	A	580	60.174	77.839	-36.292	1.00	0.00	N
60	ATOM	4571	CA	VAL	A	580	60.556	76.739	-35.421	1.00	0.00	C
	ATOM	4572	C	VAL	A	580	61.396	75.690	-36.144	1.00	0.00	C

	ATOM	4573	O	VAL	A	580	61.190	75.418	-37.327	1.00	0.00	O
	ATOM	4574	CB	VAL	A	580	59.298	76.042	-34.849	1.00	0.00	C
	ATOM	4575	CG1	VAL	A	580	59.695	74.989	-33.819	1.00	0.00	C
	ATOM	4576	CG2	VAL	A	580	58.369	77.073	-34.235	1.00	0.00	C
5	ATOM	4577	N	THR	A	581	62.342	75.111	-35.412	1.00	0.00	N
	ATOM	4578	CA	THR	A	581	63.223	74.062	-35.921	1.00	0.00	C
	ATOM	4579	C	THR	A	581	63.488	73.087	-34.776	1.00	0.00	C
	ATOM	4580	O	THR	A	581	63.370	73.461	-33.607	1.00	0.00	O
	ATOM	4581	CB	THR	A	581	64.591	74.626	-36.372	1.00	0.00	C
10	ATOM	4582	OG1	THR	A	581	65.173	75.380	-35.301	1.00	0.00	O
	ATOM	4583	CG2	THR	A	581	64.438	75.519	-37.604	1.00	0.00	C
	ATOM	4584	N	ASP	A	582	63.824	71.839	-35.101	1.00	0.00	N
	ATOM	4585	CA	ASP	A	582	64.148	70.871	-34.058	1.00	0.00	C
	ATOM	4586	C	ASP	A	582	65.656	70.994	-33.839	1.00	0.00	C
15	ATOM	4587	O	ASP	A	582	66.293	71.836	-34.468	1.00	0.00	O
	ATOM	4588	CB	ASP	A	582	63.732	69.447	-34.467	1.00	0.00	C
	ATOM	4589	CG	ASP	A	582	64.401	68.963	-35.743	1.00	0.00	C
	ATOM	4590	OD1	ASP	A	582	63.888	67.980	-36.324	1.00	0.00	O
	ATOM	4591	OD2	ASP	A	582	65.428	69.536	-36.161	1.00	0.00	O
20	ATOM	4592	N	LEU	A	583	66.250	70.184	-32.970	1.00	0.00	N
	ATOM	4593	CA	LEU	A	583	67.681	70.357	-32.750	1.00	0.00	C
	ATOM	4594	C	LEU	A	583	68.566	69.930	-33.916	1.00	0.00	C
	ATOM	4595	O	LEU	A	583	69.761	70.219	-33.922	1.00	0.00	O
	ATOM	4596	CB	LEU	A	583	68.141	69.660	-31.470	1.00	0.00	C
25	ATOM	4597	CG	LEU	A	583	69.404	70.352	-30.945	1.00	0.00	C
	ATOM	4598	CD1	LEU	A	583	69.062	71.782	-30.548	1.00	0.00	C
	ATOM	4599	CD2	LEU	A	583	69.976	69.605	-29.768	1.00	0.00	C
	ATOM	4600	N	ALA	A	584	67.985	69.248	-34.900	1.00	0.00	N
	ATOM	4601	CA	ALA	A	584	68.743	68.827	-36.075	1.00	0.00	C
30	ATOM	4602	C	ALA	A	584	68.633	69.945	-37.107	1.00	0.00	C
	ATOM	4603	O	ALA	A	584	69.061	69.806	-38.255	1.00	0.00	O
	ATOM	4604	CB	ALA	A	584	68.176	67.531	-36.636	1.00	0.00	C
	ATOM	4605	N	ASN	A	585	68.049	71.057	-36.673	1.00	0.00	N
	ATOM	4606	CA	ASN	A	585	67.854	72.227	-37.516	1.00	0.00	C
35	ATOM	4607	C	ASN	A	585	66.819	71.991	-38.612	1.00	0.00	C
	ATOM	4608	O	ASN	A	585	66.787	72.720	-39.603	1.00	0.00	O
	ATOM	4609	CB	ASN	A	585	69.178	72.663	-38.149	1.00	0.00	C
	ATOM	4610	CG	ASN	A	585	69.481	74.127	-37.907	1.00	0.00	C
	ATOM	4611	OD1	ASN	A	585.	68.607	74.988	-38.041	1.00	0.00	O
40	ATOM	4612	ND2	ASN	A	585	70.726	74.420	-37.554	1.00	0.00	N
	ATOM	4613	N	ASN	A	586	65.983	70.970	-38.443	1.00	0.00	N
	ATOM	4614	CA	ASN	A	586	64.941	70.691	-39.424	1.00	0.00	C
	ATOM	4615	C	ASN	A	586	63.801	71.669	-39.183	1.00	0.00	C
	ATOM	4616	O	ASN	A	586	63.364	71.850	-38.048	1.00	0.00	O
45	ATOM	4617	CB	ASN	A	586	64.372	69.279	-39.268	1.00	0.00	C
	ATOM	4618	CG	ASN	A	586	65.411	68.201	-39.433	1.00	0.00	C
	ATOM	4619	OD1	ASN	A	586	66.196	68.216	-40.381	1.00	0.00	O
	ATOM	4620	ND2	ASN	A	586	65.411	67.239	-38.513	1.00	0.00	N
	ATOM	4621	N	PRO	A	587	63.302	72.313	-40.244	1.00	0.00	N
50	ATOM	4622	CA	PRO	A	587	62.197	73.254	-40.045	1.00	0.00	C
	ATOM	4623	C	PRO	A	587	60.944	72.515	-39.584	1.00	0.00	C
	ATOM	4624	O	PRO	A	587	60.730	71.353	-39.933	1.00	0.00	O
	ATOM	4625	CB	PRO	A	587	62.034	73.895	-41.423	1.00	0.00	C
	ATOM	4626	CG	PRO	A	587	62.496	72.817	-42.358	1.00	0.00	C
55	ATOM	4627	CD	PRO	A	587	63.716	72.271	-41.658	1.00	0.00	C
	ATOM	4628	N	VAL	A	588	60.129	73.188	-38.781	1.00	0.00	N
	ATOM	4629	CA	VAL	A	588	58.895	72.610	-38.266	1.00	0.00	C
	ATOM	4630	C	VAL	A	588	57.776	73.579	-38.621	1.00	0.00	C
	ATOM	4631	O	VAL	A	588	57.871	74.770	-38.325	1.00	0.00	O
60	ATOM	4632	CB	VAL	A	588	58.953	72.447	-36.728	1.00	0.00	C
	ATOM	4633	CG1	VAL	A	588	57.620	71.937	-36.208	1.00	0.00	C

ATOM	4634	CG2	VAL	A	588	60.074	71.490	-36.347	1.00	0.00	C
ATOM	4635	N	GLU	A	589	56.725	73.079	-39.264	1.00	0.00	N
ATOM	4636	CA	GLU	A	589	55.621	73.946	-39.649	1.00	0.00	C
ATOM	4637	C	GLU	A	589	54.977	74.556	-38.412	1.00	0.00	C
ATOM	4638	O	GLU	A	589	54.704	73.859	-37.435	1.00	0.00	O
ATOM	4639	CB	GLU	A	589	54.567	73.175	-40.441	1.00	0.00	C
ATOM	4640	CG	GLU	A	589	53.664	74.090	-41.253	1.00	0.00	C
ATOM	4641	CD	GLU	A	589	52.443	73.385	-41.799	1.00	0.00	C
ATOM	4642	OE1	GLU	A	589	52.573	72.226	-42.248	1.00	0.00	O
ATOM	4643	OE2	GLU	A	589	51.351	73.998	-41.787	1.00	0.00	O
ATOM	4644	N	ALA	A	590	54.732	75.861	-38.464	1.00	0.00	N
ATOM	4645	CA	ALA	A	590	54.133	76.568	-37.342	1.00	0.00	C
ATOM	4646	C	ALA	A	590	53.039	77.519	-37.805	1.00	0.00	C
ATOM	4647	O	ALA	A	590	52.950	77.852	-38.985	1.00	0.00	O
ATOM	4648	CB	ALA	A	590	55.207	77.344	-36.591	1.00	0.00	C
ATOM	4649	N	GLN	A	591	52.209	77.943	-36.860	1.00	0.00	N
ATOM	4650	CA	GLN	A	591	51.118	78.874	-37.125	1.00	0.00	C
ATOM	4651	C	GLN	A	591	51.138	79.934	-36.035	1.00	0.00	C
ATOM	4652	O	GLN	A	591	51.301	79.618	-34.855	1.00	0.00	O
ATOM	4653	CB	GLN	A	591	49.764	78.157	-37.079	1.00	0.00	C
ATOM	4654	CG	GLN	A	591	48.561	79.103	-37.149	1.00	0.00	C
ATOM	4655	CD	GLN	A	591	47.235	78.403	-36.881	1.00	0.00	C
ATOM	4656	OE1	GLN	A	591	46.958	77.339	-37.437	1.00	0.00	O
ATOM	4657	NE2	GLN	A	591	46.407	79.004	-36.034	1.00	0.00	N
ATOM	4658	N	VAL	A	592	50.987	81.193	-36.425	1.00	0.00	N
ATOM	4659	CA	VAL	A	592	50.958	82.266	-35.446	1.00	0.00	C
ATOM	4660	C	VAL	A	592	49.550	82.840	-35.410	1.00	0.00	C
ATOM	4661	O	VAL	A	592	48.915	83.026	-36.447	1.00	0.00	O
ATOM	4662	CB	VAL	A	592	51.973	83.381	-35.782	1.00	0.00	C
ATOM	4663	CG1	VAL	A	592	51.754	84.583	-34.861	1.00	0.00	C
ATOM	4664	CG2	VAL	A	592	53.395	82.851	-35.609	1.00	0.00	C
ATOM	4665	N	SER	A	593	49.057	83.082	-34.203	1.00	0.00	N
ATOM	4666	CA	SER	A	593	47.729	83.643	-34.002	1.00	0.00	C
ATOM	4667	C	SER	A	593	47.867	84.779	-33.003	1.00	0.00	C
ATOM	4668	O	SER	A	593	48.873	84.879	-32.296	1.00	0.00	O
ATOM	4669	CB	SER	A	593	46.768	82.586	-33.436	1.00	0.00	C
ATOM	4670	OG	SER	A	593	46.601	81.492	-34.326	1.00	0.00	O
ATOM	4671	N	PRO	A	594	46.862	85.660	-32.932	1.00	0.00	N
ATOM	4672	CA	PRO	A	594	46.940	86.773	-31.983	1.00	0.00	C
ATOM	4673	C	PRO	A	594	46.674	86.288	-30.563	1.00	0.00	C
ATOM	4674	O	PRO	A	594	46.236	85.153	-30.354	1.00	0.00	O
ATOM	4675	CB	PRO	A	594	45.832	87.716	-32.453	1.00	0.00	C
ATOM	4676	CG	PRO	A	594	45.611	87.340	-33.899	1.00	0.00	C
ATOM	4677	CD	PRO	A	594	45.739	85.842	-33.866	1.00	0.00	C
ATOM	4678	N	VAL	A	595	46.951	87.146	-29.589	1.00	0.00	N
ATOM	4679	CA	VAL	A	595	46.669	86.819	-28.201	1.00	0.00	C
ATOM	4680	C	VAL	A	595	45.381	87.572	-27.896	1.00	0.00	C
ATOM	4681	O	VAL	A	595	45.387	88.794	-27.762	1.00	0.00	O
ATOM	4682	CB	VAL	A	595	47.778	87.302	-27.244	1.00	0.00	C
ATOM	4683	CG1	VAL	A	595	47.342	87.080	-25.795	1.00	0.00	C
ATOM	4684	CG2	VAL	A	595	49.065	86.542	-27.518	1.00	0.00	C
ATOM	4685	N	TRP	A	596	44.274	86.840	-27.812	1.00	0.00	N
ATOM	4686	CA	TRP	A	596	42.977	87.443	-27.543	1.00	0.00	C
ATOM	4687	C	TRP	A	596	42.569	87.333	-26.079	1.00	0.00	C
ATOM	4688	O	TRP	A	596	42.694	86.272	-25.466	1.00	0.00	O
ATOM	4689	CB	TRP	A	596	41.886	86.783	-28.400	1.00	0.00	C
ATOM	4690	CG	TRP	A	596	42.049	86.945	-29.879	1.00	0.00	C
ATOM	4691	CD1	TRP	A	596	42.507	86.009	-30.764	1.00	0.00	C
ATOM	4692	CD2	TRP	A	596	41.740	88.111	-30.652	1.00	0.00	C
ATOM	4693	NE1	TRP	A	596	42.498	86.519	-32.041	1.00	0.00	N
ATOM	4694	CE2	TRP	A	596	42.033	87.808	-32.000	1.00	0.00	C

ATOM	4695	CE3	TRP	A	596	41.242	89.383	-30.335	1.00	0.00	C
ATOM	4696	CZ2	TRP	A	596	41.845	88.732	-33.034	1.00	0.00	C
ATOM	4697	CZ3	TRP	A	596	41.054	90.305	-31.366	1.00	0.00	C
ATOM	4698	CH2	TRP	A	596	41.356	89.971	-32.699	1.00	0.00	C
ATOM	4699	N	SER	A	597	42.079	88.436	-25.524	1.00	0.00	N
ATOM	4700	CA	SER	A	597	41.618	88.455	-24.142	1.00	0.00	C
ATOM	4701	C	SER	A	597	40.221	89.063	-24.128	1.00	0.00	C
ATOM	4702	O	SER	A	597	39.975	90.094	-24.758	1.00	0.00	O
ATOM	4703	CB	SER	A	597	42.563	89.281	-23.267	1.00	0.00	C
ATOM	4704	OG	SER	A	597	42.711	90.586	-23.785	1.00	0.00	O
ATOM	4705	N	TRP	A	598	39.305	88.414	-23.420	1.00	0.00	N
ATOM	4706	CA	TRP	A	598	37.933	88.890	-23.344	1.00	0.00	C
ATOM	4707	C	TRP	A	598	37.721	89.802	-22.148	1.00	0.00	C
ATOM	4708	O	TRP	A	598	38.207	89.532	-21.050	1.00	0.00	O
ATOM	4709	CB	TRP	A	598	36.968	87.705	-23.289	1.00	0.00	C
ATOM	4710	CG	TRP	A	598	36.941	86.932	-24.571	1.00	0.00	C
ATOM	4711	CD1	TRP	A	598	37.903	86.082	-25.040	1.00	0.00	C
ATOM	4712	CD2	TRP	A	598	35.923	86.978	-25.575	1.00	0.00	C
ATOM	4713	NE1	TRP	A	598	37.544	85.595	-26.277	1.00	0.00	N
ATOM	4714	CE2	TRP	A	598	36.334	86.130	-26.629	1.00	0.00	C
ATOM	4715	CE3	TRP	A	598	34.701	87.657	-25.688	1.00	0.00	C
ATOM	4716	CZ2	TRP	A	598	35.566	85.942	-27.782	1.00	0.00	C
ATOM	4717	CZ3	TRP	A	598	33.938	87.470	-26.838	1.00	0.00	C
ATOM	4718	CH2	TRP	A	598	34.375	86.619	-27.869	1.00	0.00	C
ATOM	4719	N	HIS	A	599	36.988	90.885	-22.368	1.00	0.00	N
ATOM	4720	CA	HIS	A	599	36.737	91.849	-21.311	1.00	0.00	C
ATOM	4721	C	HIS	A	599	35.281	92.272	-21.237	1.00	0.00	C
ATOM	4722	O	HIS	A	599	34.620	92.452	-22.261	1.00	0.00	O
ATOM	4723	CB	HIS	A	599	37.618	93.079	-21.530	1.00	0.00	C
ATOM	4724	CG	HIS	A	599	39.080	92.764	-21.595	1.00	0.00	C
ATOM	4725	ND1	HIS	A	599	39.807	92.371	-20.492	1.00	0.00	N
ATOM	4726	CD2	HIS	A	599	39.942	92.749	-22.639	1.00	0.00	C
ATOM	4727	CE1	HIS	A	599	41.054	92.128	-20.854	1.00	0.00	C
ATOM	4728	NE2	HIS	A	599	41.162	92.349	-22.152	1.00	0.00	N
ATOM	4729	N	HIS	A	600	34.785	92.418	-20.015	1.00	0.00	N
ATOM	4730	CA	HIS	A	600	33.413	92.846	-19.800	1.00	0.00	C
ATOM	4731	C	HIS	A	600	33.458	94.366	-19.818	1.00	0.00	C
ATOM	4732	O	HIS	A	600	33.805	94.997	-18.820	1.00	0.00	O
ATOM	4733	CB	HIS	A	600	32.901	92.352	-18.446	1.00	0.00	C
ATOM	4734	CG	HIS	A	600	31.441	92.602	-18.225	1.00	0.00	C
ATOM	4735	ND1	HIS	A	600	30.866	93.845	-18.386	1.00	0.00	N
ATOM	4736	CD2	HIS	A	600	30.440	91.770	-17.853	1.00	0.00	C
ATOM	4737	CE1	HIS	A	600	29.573	93.768	-18.123	1.00	0.00	C
ATOM	4738	NE2	HIS	A	600	29.289	92.519	-17.797	1.00	0.00	N
ATOM	4739	N	ASP	A	601	33.126	94.947	-20.965	1.00	0.00	N
ATOM	4740	CA	ASP	A	601	33.146	96.394	-21.123	1.00	0.00	C
ATOM	4741	C	ASP	A	601	32.061	97.056	-20.278	1.00	0.00	C
ATOM	4742	O	ASP	A	601	30.879	97.001	-20.615	1.00	0.00	O
ATOM	4743	CB	ASP	A	601	32.953	96.760	-22.595	1.00	0.00	C
ATOM	4744	CG	ASP	A	601	33.347	98.191	-22.896	1.00	0.00	C
ATOM	4745	OD1	ASP	A	601	32.849	99.108	-22.211	1.00	0.00	O
ATOM	4746	OD2	ASP	A	601	34.155	98.399	-23.824	1.00	0.00	O
ATOM	4747	N	THR	A	602	32.475	97.683	-19.180	1.00	0.00	N
ATOM	4748	CA	THR	A	602	31.550	98.358	-18.276	1.00	0.00	C
ATOM	4749	C	THR	A	602	30.828	99.511	-18.964	1.00	0.00	C
ATOM	4750	O	THR	A	602	29.728	99.890	-18.561	1.00	0.00	O
ATOM	4751	CB	THR	A	602	32.288	98.921	-17.040	1.00	0.00	C
ATOM	4752	OG1	THR	A	602	32.931	97.852	-16.337	1.00	0.00	O
ATOM	4753	CG2	THR	A	602	31.307	99.619	-16.101	1.00	0.00	C
ATOM	4754	N	LEU	A	603	31.448	100.062	-20.003	1.00	0.00	N
ATOM	4755	CA	LEU	A	603	30.868	101.183	-20.735	1.00	0.00	C

ATOM	4756	C	LEU	A	603	29.841	100.767	-21.784	1.00	0.00	C
ATOM	4757	O	LEU	A	603	28.697	101.217	-21.752	1.00	0.00	O
ATOM	4758	CB	LEU	A	603	31.973	102.008	-21.407	1.00	0.00	C
ATOM	4759	CG	LEU	A	603	32.940	102.781	-20.504	1.00	0.00	C
ATOM	4760	CD1	LEU	A	603	32.150	103.721	-19.603	1.00	0.00	C
ATOM	4761	CD2	LEU	A	603	33.769	101.815	-19.671	1.00	0.00	C
ATOM	4762	N	THR	A	604	30.253	99.913	-22.714	1.00	0.00	N
ATOM	4763	CA	THR	A	604	29.363	99.455	-23.776	1.00	0.00	C
ATOM	4764	C	THR	A	604	28.457	98.314	-23.328	1.00	0.00	C
ATOM	4765	O	THR	A	604	27.566	97.895	-24.066	1.00	0.00	O
ATOM	4766	CB	THR	A	604	30.162	98.980	-24.999	1.00	0.00	C
ATOM	4767	OG1	THR	A	604	30.974	97.858	-24.630	1.00	0.00	O
ATOM	4768	CG2	THR	A	604	31.054	100.100	-25.520	1.00	0.00	C
ATOM	4769	N	LYS	A	605	28.689	97.814	-22.120	1.00	0.00	N
ATOM	4770	CA	LYS	A	605	27.892	96.717	-21.582	1.00	0.00	C
ATOM	4771	C	LYS	A	605	27.894	95.503	-22.511	1.00	0.00	C
ATOM	4772	O	LYS	A	605	26.865	94.858	-22.703	1.00	0.00	O
ATOM	4773	CB	LYS	A	605	26.452	97.178	-21.343	1.00	0.00	C
ATOM	4774	CG	LYS	A	605	26.328	98.317	-20.345	1.00	0.00	C
ATOM	4775	CD	LYS	A	605	26.799	97.897	-18.959	1.00	0.00	C
ATOM	4776	CE	LYS	A	605	26.693	99.051	-17.972	1.00	0.00	C
ATOM	4777	NZ	LYS	A	605	27.086	98.649	-16.595	1.00	0.00	N
ATOM	4778	N	THR	A	606	29.053	95.204	-23.090	1.00	0.00	N
ATOM	4779	CA	THR	A	606	29.198	94.060	-23.986	1.00	0.00	C
ATOM	4780	C	THR	A	606	30.454	93.289	-23.607	1.00	0.00	C
ATOM	4781	O	THR	A	606	31.371	93.841	-23.004	1.00	0.00	O
ATOM	4782	CB	THR	A	606	29.340	94.496	-25.461	1.00	0.00	C
ATOM	4783	OG1	THR	A	606	30.503	95.325	-25.606	1.00	0.00	O
ATOM	4784	CG2	THR	A	606	28.109	95.264	-25.915	1.00	0.00	C
ATOM	4785	N	ILE	A	607	30.484	92.006	-23.947	1.00	0.00	N
ATOM	4786	CA	ILE	A	607	31.645	91.173	-23.666	1.00	0.00	C
ATOM	4787	C	ILE	A	607	32.333	90.955	-25.009	1.00	0.00	C
ATOM	4788	O	ILE	A	607	31.806	90.263	-25.880	1.00	0.00	O
ATOM	4789	CB	ILE	A	607	31.226	89.819	-23.069	1.00	0.00	C
ATOM	4790	CG1	ILE	A	607	30.416	90.047	-21.787	1.00	0.00	C
ATOM	4791	CG2	ILE	A	607	32.461	88.981	-22.769	1.00	0.00	C
ATOM	4792	CD1	ILE	A	607	29.720	88.811	-21.267	1.00	0.00	C
ATOM	4793	N	HIS	A	608	33.505	91.560	-25.186	1.00	0.00	N
ATOM	4794	CA	HIS	A	608	34.221	91.434	-26.449	1.00	0.00	C
ATOM	4795	C	HIS	A	608	35.720	91.224	-26.272	1.00	0.00	C
ATOM	4796	O	HIS	A	608	36.291	91.545	-25.227	1.00	0.00	O
ATOM	4797	CB	HIS	A	608	33.965	92.665	-27.321	1.00	0.00	C
ATOM	4798	CG	HIS	A	608	34.490	93.938	-26.738	1.00	0.00	C
ATOM	4799	ND1	HIS	A	608	34.011	94.472	-25.562	1.00	0.00	N
ATOM	4800	CD2	HIS	A	608	35.455	94.784	-27.171	1.00	0.00	C
ATOM	4801	CE1	HIS	A	608	34.657	95.594	-25.295	1.00	0.00	C
ATOM	4802	NE2	HIS	A	608	35.538	95.806	-26.256	1.00	0.00	N
ATOM	4803	N	PRO	A	609	36.380	90.685	-27.307	1.00	0.00	N
ATOM	4804	CA	PRO	A	609	37.818	90.425	-27.259	1.00	0.00	C
ATOM	4805	C	PRO	A	609	38.709	91.561	-27.733	1.00	0.00	C
ATOM	4806	O	PRO	A	609	38.363	92.302	-28.654	1.00	0.00	O
ATOM	4807	CB	PRO	A	609	37.958	89.196	-28.141	1.00	0.00	C
ATOM	4808	CG	PRO	A	609	36.996	89.518	-29.251	1.00	0.00	C
ATOM	4809	CD	PRO	A	609	35.784	90.098	-28.524	1.00	0.00	C
ATOM	4810	N	GLN	A	610	39.862	91.684	-27.085	1.00	0.00	N
ATOM	4811	CA	GLN	A	610	40.854	92.688	-27.438	1.00	0.00	C
ATOM	4812	C	GLN	A	610	42.117	91.913	-27.788	1.00	0.00	C
ATOM	4813	O	GLN	A	610	42.469	90.953	-27.103	1.00	0.00	O
ATOM	4814	CB	GLN	A	610	41.138	93.626	-26.259	1.00	0.00	C
ATOM	4815	CG	GLN	A	610	39.957	94.489	-25.829	1.00	0.00	C
ATOM	4816	CD	GLN	A	610	40.344	95.515	-24.773	1.00	0.00	C

	ATOM	4817	OE1	GLN	A	610	40.839	95.165	-23.699	1.00	0.00	O
	ATOM	4818	NE2	GLN	A	610	40.122	96.790	-25.077	1.00	0.00	N
	ATOM	4819	N	GLY	A	611	42.787	92.319	-28.859	1.00	0.00	N
	ATOM	4820	CA	GLY	A	611	44.000	91.634	-29.262	1.00	0.00	C
5	ATOM	4821	C	GLY	A	611	45.252	92.383	-28.852	1.00	0.00	C
	ATOM	4822	O	GLY	A	611	45.276	93.615	-28.848	1.00	0.00	O
	ATOM	4823	N	SER	A	612	46.294	91.639	-28.496	1.00	0.00	N
	ATOM	4824	CA	SER	A	612	47.559	92.244	-28.093	1.00	0.00	C
	ATOM	4825	C	SER	A	612	48.306	92.772	-29.311	1.00	0.00	C
10	ATOM	4826	O	SER	A	612	48.214	92.201	-30.396	1.00	0.00	O
	ATOM	4827	CB	SER	A	612	48.437	91.215	-27.379	1.00	0.00	C
	ATOM	4828	OG	SER	A	612	49.742	91.729	-27.169	1.00	0.00	O
	ATOM	4829	N	THR	A	613	49.047	93.862	-29.126	1.00	0.00	N
	ATOM	4830	CA	THR	A	613	49.822	94.450	-30.214	1.00	0.00	C
15	ATOM	4831	C	THR	A	613	51.321	94.258	-29.975	1.00	0.00	C
	ATOM	4832	O	THR	A	613	52.145	94.760	-30.741	1.00	0.00	O
	ATOM	4833	CB	THR	A	613	49.550	95.962	-30.358	1.00	0.00	C
	ATOM	4834	OG1	THR	A	613	49.909	96.628	-29.141	1.00	0.00	O
	ATOM	4835	CG2	THR	A	613	48.076	96.216	-30.661	1.00	0.00	C
20	ATOM	4836	N	THR	A	614	51.665	93.522	-28.919	1.00	0.00	N
	ATOM	4837	CA	THR	A	614	53.065	93.272	-28.570	1.00	0.00	C
	ATOM	4838	C	THR	A	614	53.371	91.799	-28.288	1.00	0.00	C
	ATOM	4839	O	THR	A	614	54.535	91.405	-28.190	1.00	0.00	O
	ATOM	4840	CB	THR	A	614	53.469	94.067	-27.318	1.00	0.00	C
25	ATOM	4841	OG1	THR	A	614	52.573	93.750	-26.244	1.00	0.00	O
	ATOM	4842	CG2	THR	A	614	53.421	95.562	-27.592	1.00	0.00	C
	ATOM	4843	N	LYS	A	615	52.324	90.993	-28.158	1.00	0.00	N
	ATOM	4844	CA	LYS	A	615	52.468	89.574	-27.856	1.00	0.00	C
	ATOM	4845	C	LYS	A	615	51.682	88.728	-28.858	1.00	0.00	C
30	ATOM	4846	O	LYS	A	615	50.582	89.108	-29.265	1.00	0.00	O
	ATOM	4847	CB	LYS	A	615	51.952	89.324	-26.435	1.00	0.00	C
	ATOM	4848	CG	LYS	A	615	51.865	87.874	-26.015	1.00	0.00	C
	ATOM	4849	CD	LYS	A	615	51.022	87.725	-24.746	1.00	0.00	C
	ATOM	4850	CE	LYS	A	615	51.586	88.531	-23.586	1.00	0.00	C
35	ATOM	4851	NZ	LYS	A	615	50.784	88.342	-22.340	1.00	0.00	N
	ATOM	4852	N	TYR	A	616	52.248	87.589	-29.257	1.00	0.00	N
	ATOM	4853	CA	TYR	A	616	51.589	86.695	-30.211	1.00	0.00	C
	ATOM	4854	C	TYR	A	616	51.764	85.230	-29.823	1.00	0.00	C
	ATOM	4855	O	TYR	A	616	52.678	84.888	-29.078	1.00	0.00	O
40	ATOM	4856	CB	TYR	A	616	52.145	86.921	-31.621	1.00	0.00	C
	ATOM	4857	CG	TYR	A	616	52.153	88.376	-32.015	1.00	0.00	C
	ATOM	4858	CD1	TYR	A	616	53.238	89.192	-31.700	1.00	0.00	C
	ATOM	4859	CD2	TYR	A	616	51.041	88.958	-32.624	1.00	0.00	C
	ATOM	4860	CE1	TYR	A	616	53.217	90.552	-31.973	1.00	0.00	C
45	ATOM	4861	CE2	TYR	A	616	51.008	90.323	-32.901	1.00	0.00	C
	ATOM	4862	CZ	TYR	A	616	52.099	91.112	-32.570	1.00	0.00	C
	ATOM	4863	OH	TYR	A	616	52.072	92.463	-32.826	1.00	0.00	O
	ATOM	4864	N	ARG	A	617	50.876	84.373	-30.326	1.00	0.00	N
	ATOM	4865	CA	ARG	A	617	50.933	82.938	-30.038	1.00	0.00	C
50	ATOM	4866	C	ARG	A	617	51.527	82.156	-31.204	1.00	0.00	C
	ATOM	4867	O	ARG	A	617	51.039	82.267	-32.328	1.00	0.00	O
	ATOM	4868	CB	ARG	A	617	49.529	82.368	-29.786	1.00	0.00	C
	ATOM	4869	CG	ARG	A	617	48.870	82.713	-28.464	1.00	0.00	C
	ATOM	4870	CD	ARG	A	617	47.479	82.073	-28.383	1.00	0.00	C
55	ATOM	4871	NE	ARG	A	617	47.529	80.609	-28.395	1.00	0.00	N
	ATOM	4872	CZ	ARG	A	617	46.860	79.838	-29.248	1.00	0.00	C
	ATOM	4873	NH1	ARG	A	617	46.081	80.380	-30.174	1.00	0.00	N
	ATOM	4874	NH2	ARG	A	617	46.967	78.518	-29.177	1.00	0.00	N
	ATOM	4875	N	ILE	A	618	52.577	81.375	-30.954	1.00	0.00	N
60	ATOM	4876	CA	ILE	A	618	53.130	80.547	-32.019	1.00	0.00	C
	ATOM	4877	C	ILE	A	618	52.770	79.112	-31.659	1.00	0.00	C

ATOM	4878	O	ILE	A	618	52.944	78.683	-30.519	1.00	0.00	O
ATOM	4879	CB	ILE	A	618	54.664	80.704	-32.188	1.00	0.00	C
ATOM	4880	CG1	ILE	A	618	55.113	79.892	-33.409	1.00	0.00	C
ATOM	4881	CG2	ILE	A	618	55.399	80.266	-30.932	1.00	0.00	C
ATOM	4882	CD1	ILE	A	618	56.471	80.272	-33.954	1.00	0.00	C
ATOM	4883	N	ILE	A	619	52.242	78.385	-32.636	1.00	0.00	N
ATOM	4884	CA	ILE	A	619	51.798	77.015	-32.435	1.00	0.00	C
ATOM	4885	C	ILE	A	619	52.481	76.048	-33.395	1.00	0.00	C
ATOM	4886	O	ILE	A	619	52.639	76.348	-34.577	1.00	0.00	O
ATOM	4887	CB	ILE	A	619	50.283	76.918	-32.673	1.00	0.00	C
ATOM	4888	CG1	ILE	A	619	49.564	77.999	-31.860	1.00	0.00	C
ATOM	4889	CG2	ILE	A	619	49.785	75.526	-32.320	1.00	0.00	C
ATOM	4890	CD1	ILE	A	619	48.230	78.428	-32.458	1.00	0.00	C
ATOM	4891	N	PHE	A	620	52.876	74.884	-32.890	1.00	0.00	N
ATOM	4892	CA	PHE	A	620	53.509	73.883	-33.735	1.00	0.00	C
ATOM	4893	C	PHE	A	620	53.364	72.491	-33.137	1.00	0.00	C
ATOM	4894	O	PHE	A	620	53.086	72.341	-31.951	1.00	0.00	O
ATOM	4895	CB	PHE	A	620	54.987	74.227	-33.971	1.00	0.00	C
ATOM	4896	CG	PHE	A	620	55.854	74.113	-32.749	1.00	0.00	C
ATOM	4897	CD1	PHE	A	620	56.454	72.899	-32.417	1.00	0.00	C
ATOM	4898	CD2	PHE	A	620	56.097	75.222	-31.946	1.00	0.00	C
ATOM	4899	CE1	PHE	A	620	57.289	72.791	-31.303	1.00	0.00	C
ATOM	4900	CE2	PHE	A	620	56.931	75.127	-30.829	1.00	0.00	C
ATOM	4901	CZ	PHE	A	620	57.528	73.906	-30.510	1.00	0.00	C
ATOM	4902	N	LYS	A	621	53.539	71.475	-33.971	1.00	0.00	N
ATOM	4903	CA	LYS	A	621	53.406	70.098	-33.526	1.00	0.00	C
ATOM	4904	C	LYS	A	621	54.693	69.547	-32.935	1.00	0.00	C
ATOM	4905	O	LYS	A	621	55.716	69.474	-33.613	1.00	0.00	O
ATOM	4906	CB	LYS	A	621	52.946	69.220	-34.698	1.00	0.00	C
ATOM	4907	CG	LYS	A	621	52.735	67.753	-34.337	1.00	0.00	C
ATOM	4908	CD	LYS	A	621	51.891	67.034	-35.387	1.00	0.00	C
ATOM	4909	CE	LYS	A	621	52.554	67.047	-36.750	1.00	0.00	C
ATOM	4910	NZ	LYS	A	621	51.698	66.394	-37.786	1.00	0.00	N
ATOM	4911	N	ALA	A	622	54.645	69.171	-31.660	1.00	0.00	N
ATOM	4912	CA	ALA	A	622	55.815	68.601	-31.007	1.00	0.00	C
ATOM	4913	C	ALA	A	622	55.676	67.080	-31.018	1.00	0.00	C
ATOM	4914	O	ALA	A	622	54.578	66.550	-30.856	1.00	0.00	O
ATOM	4915	CB	ALA	A	622	55.928	69.113	-29.564	1.00	0.00	C
ATOM	4916	N	ARG	A	623	56.789	66.389	-31.237	1.00	0.00	N
ATOM	4917	CA	ARG	A	623	56.809	64.931	-31.257	1.00	0.00	C
ATOM	4918	C	ARG	A	623	57.802	64.529	-30.174	1.00	0.00	C
ATOM	4919	O	ARG	A	623	58.988	64.854	-30.250	1.00	0.00	O
ATOM	4920	CB	ARG	A	623	57.247	64.423	-32.636	1.00	0.00	C
ATOM	4921	CG	ARG	A	623	57.277	62.907	-32.753	1.00	0.00	C
ATOM	4922	CD	ARG	A	623	57.293	62.460	-34.214	1.00	0.00	C
ATOM	4923	NE	ARG	A	623	57.529	61.025	-34.334	1.00	0.00	N
ATOM	4924	CZ	ARG	A	623	58.725	60.456	-34.234	1.00	0.00	C
ATOM	4925	NH1	ARG	A	623	59.802	61.201	-34.019	1.00	0.00	N
ATOM	4926	NH2	ARG	A	623	58.845	59.139	-34.333	1.00	0.00	N
ATOM	4927	N	VAL	A	624	57.309	63.822	-29.164	1.00	0.00	N
ATOM	4928	CA	VAL	A	624	58.133	63.445	-28.022	1.00	0.00	C
ATOM	4929	C	VAL	A	624	58.204	61.941	-27.775	1.00	0.00	C
ATOM	4930	O	VAL	A	624	57.208	61.240	-27.908	1.00	0.00	O
ATOM	4931	CB	VAL	A	624	57.582	64.122	-26.749	1.00	0.00	C
ATOM	4932	CG1	VAL	A	624	58.634	64.116	-25.643	1.00	0.00	C
ATOM	4933	CG2	VAL	A	624	57.131	65.543	-27.077	1.00	0.00	C
ATOM	4934	N	PRO	A	625	59.388	61.435	-27.393	1.00	0.00	N
ATOM	4935	CA	PRO	A	625	59.579	60.007	-27.123	1.00	0.00	C
ATOM	4936	C	PRO	A	625	58.762	59.551	-25.914	1.00	0.00	C
ATOM	4937	O	PRO	A	625	58.336	60.367	-25.097	1.00	0.00	O
ATOM	4938	CB	PRO	A	625	61.079	59.903	-26.843	1.00	0.00	C

	ATOM	4939	CG	PRO	A	625	61.664	61.071	-27.591	1.00	0.00	C
	ATOM	4940	CD	PRO	A	625	60.667	62.158	-27.296	1.00	0.00	C
	ATOM	4941	N	PRO	A	626	58.542	58.233	-25.782	1.00	0.00	N
	ATOM	4942	CA	PRO	A	626	57.777	57.728	-24.639	1.00	0.00	C
5	ATOM	4943	C	PRO	A	626	58.528	58.166	-23.378	1.00	0.00	C
	ATOM	4944	O	PRO	A	626	59.748	58.027	-23.317	1.00	0.00	O
	ATOM	4945	CB	PRO	A	626	57.840	56.210	-24.814	1.00	0.00	C
	ATOM	4946	CG	PRO	A	626	58.102	56.018	-26.293	1.00	0.00	C
	ATOM	4947	CD	PRO	A	626	59.072	57.127	-26.599	1.00	0.00	C
10	ATOM	4948	N	MET	A	627	57.813	58.693	-22.387	1.00	0.00	N
	ATOM	4949	CA	MET	A	627	58.444	59.126	-21.140	1.00	0.00	C
	ATOM	4950	C	MET	A	627	59.744	59.879	-21.427	1.00	0.00	C
	ATOM	4951	O	MET	A	627	60.747	59.703	-20.726	1.00	0.00	O
	ATOM	4952	CB	MET	A	627	58.727	57.897	-20.268	1.00	0.00	C
15	ATOM	4953	CG	MET	A	627	57.460	57.170	-19.822	1.00	0.00	C
	ATOM	4954	SD	MET	A	627	57.760	55.517	-19.145	1.00	0.00	S
	ATOM	4955	CE	MET	A	627	58.542	55.917	-17.584	1.00	0.00	C
	ATOM	4956	N	GLY	A	628	59.716	60.734	-22.449	1.00	0.00	N
	ATOM	4957	CA	GLY	A	628	60.916	61.459	-22.828	1.00	0.00	C
20	ATOM	4958	C	GLY	A	628	60.818	62.955	-23.043	1.00	0.00	C
	ATOM	4959	O	GLY	A	628	59.837	63.596	-22.660	1.00	0.00	O
	ATOM	4960	N	LEU	A	629	61.855	63.506	-23.673	1.00	0.00	N
	ATOM	4961	CA	LEU	A	629	61.943	64.938	-23.939	1.00	0.00	C
	ATOM	4962	C	LEU	A	629	62.367	65.222	-25.376	1.00	0.00	C
25	ATOM	4963	O	LEU	A	629	63.060	64.416	-25.999	1.00	0.00	O
	ATOM	4964	CB	LEU	A	629	62.967	65.569	-22.996	1.00	0.00	C
	ATOM	4965	CG	LEU	A	629	62.727	65.359	-21.500	1.00	0.00	C
	ATOM	4966	CD1	LEU	A	629	63.989	65.688	-20.720	1.00	0.00	C
	ATOM	4967	CD2	LEU	A	629	61.562	66.231	-21.051	1.00	0.00	C
30	ATOM	4968	N	ALA	A	630	61.948	66.373	-25.893	1.00	0.00	N
	ATOM	4969	CA	ALA	A	630	62.306	66.792	-27.245	1.00	0.00	C
	ATOM	4970	C	ALA	A	630	62.533	68.297	-27.216	1.00	0.00	C
	ATOM	4971	O	ALA	A	630	61.705	69.054	-26.694	1.00	0.00	O
	ATOM	4972	CB	ALA	A	630	61.200	66.438	-28.232	1.00	0.00	C
35	ATOM	4973	N	THR	A	631	63.657	68.723	-27.782	1.00	0.00	N
	ATOM	4974	CA	THR	A	631	64.033	70.135	-27.802	1.00	0.00	C
	ATOM	4975	C	THR	A	631	63.782	70.816	-29.148	1.00	0.00	C
	ATOM	4976	O	THR	A	631	64.047	70.238	-30.199	1.00	0.00	O
	ATOM	4977	CB	THR	A	631	65.532	70.285	-27.462	1.00	0.00	C
40	ATOM	4978	OG1	THR	A	631	65.813	69.582	-26.244	1.00	0.00	O
	ATOM	4979	CG2	THR	A	631	65.912	71.753	-27.297	1.00	0.00	C
	ATOM	4980	N	TYR	A	632	63.267	72.044	-29.103	1.00	0.00	N
	ATOM	4981	CA	TYR	A	632	63.025	72.825	-30.311	1.00	0.00	C
	ATOM	4982	C	TYR	A	632	63.620	74.215	-30.124	1.00	0.00	C
45	ATOM	4983	O	TYR	A	632	63.964	74.606	-29.008	1.00	0.00	O
	ATOM	4984	CB	TYR	A	632	61.527	72.942	-30.615	1.00	0.00	C
	ATOM	4985	CG	TYR	A	632	60.869	71.626	-30.965	1.00	0.00	C
	ATOM	4986	CD1	TYR	A	632	60.488	70.728	-29.968	1.00	0.00	C
	ATOM	4987	CD2	TYR	A	632	60.656	71.264	-32.296	1.00	0.00	C
50	ATOM	4988	CE1	TYR	A	632	59.913	69.501	-30.286	1.00	0.00	C
	ATOM	4989	CE2	TYR	A	632	60.081	70.036	-32.627	1.00	0.00	C
	ATOM	4990	CZ	TYR	A	632	59.715	69.161	-31.615	1.00	0.00	C
	ATOM	4991	OH	TYR	A	632	59.164	67.939	-31.929	1.00	0.00	O
	ATOM	4992	N	VAL	A	633	63.742	74.957	-31.219	1.00	0.00	N
55	ATOM	4993	CA	VAL	A	633	64.299	76.302	-31.171	1.00	0.00	C
	ATOM	4994	C	VAL	A	633	63.381	77.286	-31.893	1.00	0.00	C
	ATOM	4995	O	VAL	A	633	62.901	77.005	-32.992	1.00	0.00	O
	ATOM	4996	CB	VAL	A	633	65.698	76.350	-31.838	1.00	0.00	C
	ATOM	4997	CG1	VAL	A	633	66.253	77.779	-31.808	1.00	0.00	C
60	ATOM	4998	CG2	VAL	A	633	66.644	75.390	-31.126	1.00	0.00	C
	ATOM	4999	N	LEU	A	634	63.122	78.424	-31.259	1.00	0.00	N

	ATOM	5000	CA	LEU	A	634	62.285	79.460	-31.860	1.00	0.00	C
	ATOM	5001	C	LEU	A	634	63.227	80.586	-32.265	1.00	0.00	C
	ATOM	5002	O	LEU	A	634	63.986	81.092	-31.440	1.00	0.00	O
	ATOM	5003	CB	LEU	A	634	61.258	79.987	-30.857	1.00	0.00	C
5	ATOM	5004	CG	LEU	A	634	60.331	78.963	-30.195	1.00	0.00	C
	ATOM	5005	CD1	LEU	A	634	59.227	79.711	-29.454	1.00	0.00	C
	ATOM	5006	CD2	LEU	A	634	59.732	78.032	-31.232	1.00	0.00	C
	ATOM	5007	N	THR	A	635	63.177	80.970	-33.537	1.00	0.00	N
	ATOM	5008	CA	THR	A	635	64.052	82.013	-34.053	1.00	0.00	C
10	ATOM	5009	C	THR	A	635	63.256	83.135	-34.708	1.00	0.00	C
	ATOM	5010	O	THR	A	635	62.308	82.884	-35.453	1.00	0.00	O
	ATOM	5011	CB	THR	A	635	65.021	81.427	-35.093	1.00	0.00	C
	ATOM	5012	OG1	THR	A	635	65.704	80.303	-34.522	1.00	0.00	O
	ATOM	5013	CG2	THR	A	635	66.038	82.473	-35.531	1.00	0.00	C
15	ATOM	5014	N	ILE	A	636	63.651	84.374	-34.435	1.00	0.00	N
	ATOM	5015	CA	ILE	A	636	62.964	85.525	-35.006	1.00	0.00	C
	ATOM	5016	C	ILE	A	636	63.622	85.921	-36.323	1.00	0.00	C
	ATOM	5017	O	ILE	A	636	64.797	85.637	-36.549	1.00	0.00	O
	ATOM	5018	CB	ILE	A	636	63.003	86.734	-34.035	1.00	0.00	C
20	ATOM	5019	CG1	ILE	A	636	62.149	87.884	-34.580	1.00	0.00	C
	ATOM	5020	CG2	ILE	A	636	64.437	87.198	-33.844	1.00	0.00	C
	ATOM	5021	CD1	ILE	A	636	62.018	89.059	-33.625	1.00	0.00	C
	ATOM	5022	N	SER	A	637	62.851	86.554	-37.200	1.00	0.00	N
	ATOM	5023	CA	SER	A	637	63.367	87.015	-38.484	1.00	0.00	C
25	ATOM	5024	C	SER	A	637	62.768	88.392	-38.757	1.00	0.00	C
	ATOM	5025	O	SER	A	637	61.829	88.805	-38.081	1.00	0.00	O
	ATOM	5026	CB	SER	A	637	63.001	86.037	-39.607	1.00	0.00	C
	ATOM	5027	OG	SER	A	637	61.600	85.878	-39.721	1.00	0.00	O
	ATOM	5028	N	ASP	A	638	63.313	89.104	-39.737	1.00	0.00	N
30	ATOM	5029	CA	ASP	A	638	62.814	90.437	-40.054	1.00	0.00	C
	ATOM	5030	C	ASP	A	638	61.445	90.401	-40.724	1.00	0.00	C
	ATOM	5031	O	ASP	A	638	60.641	91.319	-40.557	1.00	0.00	O
	ATOM	5032	CB	ASP	A	638	63.814	91.184	-40.946	1.00	0.00	C
	ATOM	5033	CG	ASP	A	638	64.097	90.456	-42.247	1.00	0.00	C
35	ATOM	5034	OD1	ASP	A	638	63.141	90.188	-43.006	1.00	0.00	O
	ATOM	5035	OD2	ASP	A	638	65.281	90.154	-42.515	1.00	0.00	O
	ATOM	5036	N	SER	A	639	61.177	89.333	-41.468	1.00	0.00	N
	ATOM	5037	CA	SER	A	639	59.906	89.197	-42.170	1.00	0.00	C
	ATOM	5038	C	SER	A	639	59.308	87.806	-42.009	1.00	0.00	C
40	ATOM	5039	O	SER	A	639	59.907	86.930	-41.390	1.00	0.00	O
	ATOM	5040	CB	SER	A	639	60.101	89.501	-43.657	1.00	0.00	C
	ATOM	5041	OG	SER	A	639	61.062	88.629	-44.224	1.00	0.00	O
	ATOM	5042	N	LYS	A	640	58.124	87.609	-42.581	1.00	0.00	N
	ATOM	5043	CA	LYS	A	640	57.435	86.329	-42.496	1.00	0.00	C
45	ATOM	5044	C	LYS	A	640	58.293	85.145	-42.929	1.00	0.00	C
	ATOM	5045	O	LYS	A	640	58.708	85.052	-44.083	1.00	0.00	O
	ATOM	5046	CB	LYS	A	640	56.150	86.359	-43.329	1.00	0.00	C
	ATOM	5047	CG	LYS	A	640	55.125	87.366	-42.832	1.00	0.00	C
	ATOM	5048	CD	LYS	A	640	53.752	87.146	-43.454	1.00	0.00	C
50	ATOM	5049	CE	LYS	A	640	53.760	87.376	-44.953	1.00	0.00	C
	ATOM	5050	NZ	LYS	A	640	52.393	87.210	-45.517	1.00	0.00	N
	ATOM	5051	N	PRO	A	641	58.573	84.222	-41.995	1.00	0.00	N
	ATOM	5052	CA	PRO	A	641	59.382	83.038	-42.291	1.00	0.00	C
	ATOM	5053	C	PRO	A	641	58.627	82.057	-43.186	1.00	0.00	C
55	ATOM	5054	O	PRO	A	641	57.397	81.998	-43.172	1.00	0.00	O
	ATOM	5055	CB	PRO	A	641	59.677	82.470	-40.905	1.00	0.00	C
	ATOM	5056	CG	PRO	A	641	58.464	82.841	-40.133	1.00	0.00	C
	ATOM	5057	CD	PRO	A	641	58.206	84.263	-40.569	1.00	0.00	C
	ATOM	5058	N	GLU	A	642	59.379	81.284	-43.959	1.00	0.00	N
60	ATOM	5059	CA	GLU	A	642	58.810	80.318	-44.889	1.00	0.00	C
	ATOM	5060	C	GLU	A	642	57.877	79.260	-44.298	1.00	0.00	C

	ATOM	5061	O	GLU A 642	56.848	78.940	-44.892	1.00	0.00	O
	ATOM	5062	CB	GLU A 642	59.943	79.614	-45.649	1.00	0.00	C
	ATOM	5063	CG	GLU A 642	59.481	78.483	-46.557	1.00	0.00	C
	ATOM	5064	CD	GLU A 642	60.631	77.788	-47.269	1.00	0.00	C
5	ATOM	5065	OE1	GLU A 642	60.372	76.790	-47.977	1.00	0.00	O
	ATOM	5066	OE2	GLU A 642	61.790	78.236	-47.124	1.00	0.00	O
	ATOM	5067	N	HIS A 643	58.220	78.722	-43.135	1.00	0.00	N
	ATOM	5068	CA	HIS A 643	57.409	77.663	-42.538	1.00	0.00	C
	ATOM	5069	C	HIS A 643	56.417	78.079	-41.460	1.00	0.00	C
10	ATOM	5070	O	HIS A 643	55.942	77.240	-40.692	1.00	0.00	O
	ATOM	5071	CB	HIS A 643	58.333	76.575	-41.996	1.00	0.00	C
	ATOM	5072	CG	HIS A 643	59.246	76.001	-43.034	1.00	0.00	C
	ATOM	5073	ND1	HIS A 643	58.823	75.079	-43.967	1.00	0.00	N
	ATOM	5074	CD2	HIS A 643	60.545	76.254	-43.317	1.00	0.00	C
15	ATOM	5075	CE1	HIS A 643	59.823	74.789	-44.781	1.00	0.00	C
	ATOM	5076	NE2	HIS A 643	60.879	75.489	-44.408	1.00	0.00	N
	ATOM	5077	N	THR A 644	56.102	79.367	-41.405	1.00	0.00	N
	ATOM	5078	CA	THR A 644	55.149	79.868	-40.426	1.00	0.00	C
	ATOM	5079	C	THR A 644	53.990	80.546	-41.153	1.00	0.00	C
20	ATOM	5080	O	THR A 644	54.205	81.423	-41.993	1.00	0.00	O
	ATOM	5081	CB	THR A 644	55.810	80.880	-39.468	1.00	0.00	C
	ATOM	5082	OG1	THR A 644	56.890	80.239	-38.773	1.00	0.00	O
	ATOM	5083	CG2	THR A 644	54.795	81.402	-38.446	1.00	0.00	C
	ATOM	5084	N	SER A 645	52.768	80.118	-40.848	1.00	0.00	N
25	ATOM	5085	CA	SER A 645	51.580	80.699	-41.462	1.00	0.00	C
	ATOM	5086	C	SER A 645	50.860	81.552	-40.424	1.00	0.00	C
	ATOM	5087	O	SER A 645	51.122	81.440	-39.221	1.00	0.00	O
	ATOM	5088	CB	SER A 645	50.642	79.601	-41.983	1.00	0.00	C
	ATOM	5089	OG	SER A 645	50.111	78.815	-40.927	1.00	0.00	O
30	ATOM	5090	N	TYR A 646	49.953	82.405	-40.887	1.00	0.00	N
	ATOM	5091	CA	TYR A 646	49.213	83.274	-39.983	1.00	0.00	C
	ATOM	5092	C	TYR A 646	47.712	83.080	-40.098	1.00	0.00	C
	ATOM	5093	O	TYR A 646	47.155	83.078	-41.194	1.00	0.00	O
	ATOM	5094	CB	TYR A 646	49.593	84.733	-40.243	1.00	0.00	C
35	ATOM	5095	CG	TYR A 646	51.072	84.959	-40.046	1.00	0.00	C
	ATOM	5096	CD1	TYR A 646	51.983	84.665	-41.061	1.00	0.00	C
	ATOM	5097	CD2	TYR A 646	51.571	85.368	-38.812	1.00	0.00	C
	ATOM	5098	CE1	TYR A 646	53.355	84.767	-40.846	1.00	0.00	C
	ATOM	5099	CE2	TYR A 646	52.938	85.472	-38.586	1.00	0.00	C
40	ATOM	5100	CZ	TYR A 646	53.823	85.169	-39.604	1.00	0.00	C
	ATOM	5101	OH	TYR A 646	55.177	85.251	-39.374	1.00	0.00	O
	ATOM	5102	N	ALA A 647	47.066	82.908	-38.951	1.00	0.00	N
	ATOM	5103	CA	ALA A 647	45.630	82.694	-38.904	1.00	0.00	C
	ATOM	5104	C	ALA A 647	44.842	83.937	-39.288	1.00	0.00	C
45	ATOM	5105	O	ALA A 647	45.283	85.064	-39.072	1.00	0.00	O
	ATOM	5106	CB	ALA A 647	45.222	82.247	-37.505	1.00	0.00	C
	ATOM	5107	N	SER A 648	43.674	83.722	-39.873	1.00	0.00	N
	ATOM	5108	CA	SER A 648	42.808	84.831	-40.229	1.00	0.00	C
	ATOM	5109	C	SER A 648	41.916	84.985	-39.005	1.00	0.00	C
50	ATOM	5110	O	SER A 648	41.749	84.034	-38.235	1.00	0.00	O
	ATOM	5111	CB	SER A 648	41.963	84.486	-41.458	1.00	0.00	C
	ATOM	5112	OG	SER A 648	41.118	83.382	-41.195	1.00	0.00	O
	ATOM	5113	N	ASN A 649	41.351	86.171	-38.812	1.00	0.00	N
	ATOM	5114	CA	ASN A 649	40.481	86.411	-37.668	1.00	0.00	C
55	ATOM	5115	C	ASN A 649	39.236	87.155	-38.125	1.00	0.00	C
	ATOM	5116	O	ASN A 649	39.321	88.127	-38.878	1.00	0.00	O
	ATOM	5117	CB	ASN A 649	41.216	87.231	-36.602	1.00	0.00	C
	ATOM	5118	CG	ASN A 649	42.398	86.488	-36.000	1.00	0.00	C
	ATOM	5119	OD1	ASN A 649	42.253	85.738	-35.031	1.00	0.00	O
60	ATOM	5120	ND2	ASN A 649	43.575	86.687	-36.581	1.00	0.00	N
	ATOM	5121	N	LEU A 650	38.083	86.689	-37.660	1.00	0.00	N

ATOM	5122	CA	LEU	A	650	36.803	87.291	-38.013	1.00	0.00	C
ATOM	5123	C	LEU	A	650	35.982	87.568	-36.763	1.00	0.00	C
ATOM	5124	O	LEU	A	650	35.622	86.647	-36.022	1.00	0.00	O
ATOM	5125	CB	LEU	A	650	36.027	86.356	-38.941	1.00	0.00	C
ATOM	5126	CG	LEU	A	650	34.612	86.784	-39.335	1.00	0.00	C
ATOM	5127	CD1	LEU	A	650	34.666	88.039	-40.200	1.00	0.00	C
ATOM	5128	CD2	LEU	A	650	33.935	85.646	-40.082	1.00	0.00	C
ATOM	5129	N	LEU	A	651	35.683	88.843	-36.533	1.00	0.00	N
ATOM	5130	CA	LEU	A	651	34.905	89.254	-35.373	1.00	0.00	C
ATOM	5131	C	LEU	A	651	33.467	89.502	-35.817	1.00	0.00	C
ATOM	5132	O	LEU	A	651	33.185	90.456	-36.544	1.00	0.00	O
ATOM	5133	CB	LEU	A	651	35.508	90.530	-34.772	1.00	0.00	C
ATOM	5134	CG	LEU	A	651	35.144	90.909	-33.330	1.00	0.00	C
ATOM	5135	CD1	LEU	A	651	33.701	91.351	-33.240	1.00	0.00	C
ATOM	5136	CD2	LEU	A	651	35.404	89.721	-32.421	1.00	0.00	C
ATOM	5137	N	LEU	A	652	32.558	88.640	-35.376	1.00	0.00	N
ATOM	5138	CA	LEU	A	652	31.159	88.760	-35.750	1.00	0.00	C
ATOM	5139	C	LEU	A	652	30.315	89.452	-34.695	1.00	0.00	C
ATOM	5140	O	LEU	A	652	30.211	88.992	-33.553	1.00	0.00	O
ATOM	5141	CB	LEU	A	652	30.577	87.378	-36.048	1.00	0.00	C
ATOM	5142	CG	LEU	A	652	31.305	86.607	-37.150	1.00	0.00	C
ATOM	5143	CD1	LEU	A	652	30.711	85.211	-37.279	1.00	0.00	C
ATOM	5144	CD2	LEU	A	652	31.202	87.372	-38.472	1.00	0.00	C
ATOM	5145	N	ARG	A	653	29.718	90.571	-35.088	1.00	0.00	N
ATOM	5146	CA	ARG	A	653	28.859	91.332	-34.198	1.00	0.00	C
ATOM	5147	C	ARG	A	653	28.429	92.626	-34.861	1.00	0.00	C
ATOM	5148	O	ARG	A	653	29.052	93.084	-35.817	1.00	0.00	O
ATOM	5149	CB	ARG	A	653	29.581	91.662	-32.896	1.00	0.00	C
ATOM	5150	CG	ARG	A	653	30.650	92.725	-33.015	1.00	0.00	C
ATOM	5151	CD	ARG	A	653	30.507	93.692	-31.860	1.00	0.00	C
ATOM	5152	NE	ARG	A	653	31.785	94.047	-31.264	1.00	0.00	N
ATOM	5153	CZ	ARG	A	653	31.909	94.744	-30.140	1.00	0.00	C
ATOM	5154	NH1	ARG	A	653	30.827	95.157	-29.493	1.00	0.00	N
ATOM	5155	NH2	ARG	A	653	33.113	95.022	-29.662	1.00	0.00	N
ATOM	5156	N	LYS	A	654	27.357	93.210	-34.343	1.00	0.00	N
ATOM	5157	CA	LYS	A	654	26.856	94.466	-34.869	1.00	0.00	C
ATOM	5158	C	LYS	A	654	27.641	95.583	-34.191	1.00	0.00	C
ATOM	5159	O	LYS	A	654	28.143	95.409	-33.079	1.00	0.00	O
ATOM	5160	CB	LYS	A	654	25.364	94.609	-34.562	1.00	0.00	C
ATOM	5161	CG	LYS	A	654	24.502	93.497	-35.154	1.00	0.00	C
ATOM	5162	CD	LYS	A	654	23.395	94.057	-36.038	1.00	0.00	C
ATOM	5163	CE	LYS	A	654	23.968	94.808	-37.232	1.00	0.00	C
ATOM	5164	NZ	LYS	A	654	22.898	95.390	-38.094	1.00	0.00	N
ATOM	5165	N	ASN	A	655	27.757	96.719	-34.867	1.00	0.00	N
ATOM	5166	CA	ASN	A	655	28.474	97.865	-34.322	1.00	0.00	C
ATOM	5167	C	ASN	A	655	29.898	97.502	-33.912	1.00	0.00	C
ATOM	5168	O	ASN	A	655	30.283	97.665	-32.754	1.00	0.00	O
ATOM	5169	CB	ASN	A	655	27.720	98.421	-33.115	1.00	0.00	C
ATOM	5170	CG	ASN	A	655	26.229	98.523	-33.363	1.00	0.00	C
ATOM	5171	OD1	ASN	A	655	25.790	99.109	-34.357	1.00	0.00	O
ATOM	5172	ND2	ASN	A	655	25.438	97.949	-32.460	1.00	0.00	N
ATOM	5173	N	PRO	A	656	30.701	97.002	-34.860	1.00	0.00	N
ATOM	5174	CA	PRO	A	656	32.080	96.631	-34.543	1.00	0.00	C
ATOM	5175	C	PRO	A	656	33.011	97.837	-34.570	1.00	0.00	C
ATOM	5176	O	PRO	A	656	32.703	98.858	-35.185	1.00	0.00	O
ATOM	5177	CB	PRO	A	656	32.419	95.638	-35.643	1.00	0.00	C
ATOM	5178	CG	PRO	A	656	31.722	96.248	-36.824	1.00	0.00	C
ATOM	5179	CD	PRO	A	656	30.366	96.626	-36.247	1.00	0.00	C
ATOM	5180	N	THR	A	657	34.144	97.709	-33.890	1.00	0.00	N
ATOM	5181	CA	THR	A	657	35.152	98.758	-33.862	1.00	0.00	C
ATOM	5182	C	THR	A	657	36.462	98.098	-34.278	1.00	0.00	C

ATOM	5183	O	THR	A	657	36.618	96.882	-34.146	1.00	0.00	O
ATOM	5184	CB	THR	A	657	35.300	99.380	-32.453	1.00	0.00	C
ATOM	5185	OG1	THR	A	657	35.484	98.342	-31.483	1.00	0.00	O
ATOM	5186	CG2	THR	A	657	34.064	100.200	-32.100	1.00	0.00	C
ATOM	5187	N	SER	A	658	37.392	98.895	-34.788	1.00	0.00	N
ATOM	5188	CA	SER	A	658	38.676	98.379	-35.240	1.00	0.00	C
ATOM	5189	C	SER	A	658	39.399	97.561	-34.172	1.00	0.00	C
ATOM	5190	O	SER	A	658	39.192	97.753	-32.973	1.00	0.00	O
ATOM	5191	CB	SER	A	658	39.570	99.533	-35.697	1.00	0.00	C
ATOM	5192	OG	SER	A	658	39.842	100.410	-34.620	1.00	0.00	O
ATOM	5193	N	LEU	A	659	40.244	96.641	-34.631	1.00	0.00	N
ATOM	5194	CA	LEU	A	659	41.024	95.777	-33.753	1.00	0.00	C
ATOM	5195	C	LEU	A	659	42.437	95.645	-34.309	1.00	0.00	C
ATOM	5196	O	LEU	A	659	42.755	94.674	-34.999	1.00	0.00	O
ATOM	5197	CB	LEU	A	659	40.383	94.387	-33.660	1.00	0.00	C
ATOM	5198	CG	LEU	A	659	39.074	94.254	-32.876	1.00	0.00	C
ATOM	5199	CD1	LEU	A	659	38.458	92.877	-33.115	1.00	0.00	C
ATOM	5200	CD2	LEU	A	659	39.347	94.470	-31.401	1.00	0.00	C
ATOM	5201	N	PRO	A	660	43.302	96.635	-34.035	1.00	0.00	N
ATOM	5202	CA	PRO	A	660	44.684	96.595	-34.524	1.00	0.00	C
ATOM	5203	C	PRO	A	660	45.469	95.503	-33.795	1.00	0.00	C
ATOM	5204	O	PRO	A	660	45.168	95.181	-32.648	1.00	0.00	O
ATOM	5205	CB	PRO	A	660	45.196	97.999	-34.211	1.00	0.00	C
ATOM	5206	CG	PRO	A	660	44.461	98.341	-32.954	1.00	0.00	C
ATOM	5207	CD	PRO	A	660	43.052	97.863	-33.260	1.00	0.00	C
ATOM	5208	N	LEU	A	661	46.472	94.938	-34.457	1.00	0.00	N
ATOM	5209	CA	LEU	A	661	47.259	93.869	-33.848	1.00	0.00	C
ATOM	5210	C	LEU	A	661	48.769	94.042	-34.012	1.00	0.00	C
ATOM	5211	O	LEU	A	661	49.494	93.070	-34.227	1.00	0.00	O
ATOM	5212	CB	LEU	A	661	46.826	92.522	-34.435	1.00	0.00	C
ATOM	5213	CG	LEU	A	661	45.370	92.120	-34.193	1.00	0.00	C
ATOM	5214	CD1	LEU	A	661	45.041	90.862	-34.987	1.00	0.00	C
ATOM	5215	CD2	LEU	A	661	45.144	91.895	-32.704	1.00	0.00	C
ATOM	5216	N	GLY	A	662	49.240	95.279	-33.907	1.00	0.00	N
ATOM	5217	CA	GLY	A	662	50.662	95.534	-34.046	1.00	0.00	C
ATOM	5218	C	GLY	A	662	51.253	95.010	-35.341	1.00	0.00	C
ATOM	5219	O	GLY	A	662	50.788	95.351	-36.427	1.00	0.00	O
ATOM	5220	N	GLN	A	663	52.272	94.163	-35.225	1.00	0.00	N
ATOM	5221	CA	GLN	A	663	52.953	93.599	-36.388	1.00	0.00	C
ATOM	5222	C	GLN	A	663	52.231	92.438	-37.065	1.00	0.00	C
ATOM	5223	O	GLN	A	663	52.638	92.003	-38.141	1.00	0.00	O
ATOM	5224	CB	GLN	A	663	54.350	93.123	-35.991	1.00	0.00	C
ATOM	5225	CG	GLN	A	663	55.169	94.131	-35.214	1.00	0.00	C
ATOM	5226	CD	GLN	A	663	56.480	93.541	-34.738	1.00	0.00	C
ATOM	5227	OE1	GLN	A	663	57.337	93.174	-35.546	1.00	0.00	O
ATOM	5228	NE2	GLN	A	663	56.640	93.435	-33.423	1.00	0.00	N
ATOM	5229	N	TYR	A	664	51.173	91.929	-36.444	1.00	0.00	N
ATOM	5230	CA	TYR	A	664	50.444	90.800	-37.016	1.00	0.00	C
ATOM	5231	C	TYR	A	664	50.151	91.025	-38.503	1.00	0.00	C
ATOM	5232	O	TYR	A	664	49.513	92.006	-38.883	1.00	0.00	O
ATOM	5233	CB	TYR	A	664	49.143	90.562	-36.247	1.00	0.00	C
ATOM	5234	CG	TYR	A	664	48.556	89.186	-36.471	1.00	0.00	C
ATOM	5235	CD1	TYR	A	664	49.146	88.053	-35.906	1.00	0.00	C
ATOM	5236	CD2	TYR	A	664	47.414	89.014	-37.253	1.00	0.00	C
ATOM	5237	CE1	TYR	A	664	48.608	86.781	-36.114	1.00	0.00	C
ATOM	5238	CE2	TYR	A	664	46.872	87.753	-37.469	1.00	0.00	C
ATOM	5239	CZ	TYR	A	664	47.471	86.639	-36.896	1.00	0.00	C
ATOM	5240	OH	TYR	A	664	46.924	85.393	-37.105	1.00	0.00	O
ATOM	5241	N	PRO	A	665	50.618	90.102	-39.361	1.00	0.00	N
ATOM	5242	CA	PRO	A	665	50.488	90.081	-40.824	1.00	0.00	C
ATOM	5243	C	PRO	A	665	49.109	90.299	-41.447	1.00	0.00	C

ATOM	5244	O	PRO	A	665	48.993	91.004	-42.449	1.00	0.00	O
ATOM	5245	CB	PRO	A	665	51.056	88.713	-41.201	1.00	0.00	C
ATOM	5246	CG	PRO	A	665	52.066	88.471	-40.145	1.00	0.00	C
ATOM	5247	CD	PRO	A	665	51.331	88.897	-38.900	1.00	0.00	C
ATOM	5248	N	GLU	A	666	48.069	89.695	-40.878	1.00	0.00	N
ATOM	5249	CA	GLU	A	666	46.736	89.837	-41.455	1.00	0.00	C
ATOM	5250	C	GLU	A	666	45.768	90.685	-40.646	1.00	0.00	C
ATOM	5251	O	GLU	A	666	45.704	90.584	-39.421	1.00	0.00	O
ATOM	5252	CB	GLU	A	666	46.112	88.460	-41.706	1.00	0.00	C
ATOM	5253	CG	GLU	A	666	44.867	88.537	-42.578	1.00	0.00	C
ATOM	5254	CD	GLU	A	666	44.401	87.187	-43.078	1.00	0.00	C
ATOM	5255	OE1	GLU	A	666	45.226	86.454	-43.664	1.00	0.00	O
ATOM	5256	OE2	GLU	A	666	43.208	86.866	-42.895	1.00	0.00	O
ATOM	5257	N	ASP	A	667	45.007	91.515	-41.356	1.00	0.00	N
ATOM	5258	CA	ASP	A	667	44.028	92.403	-40.736	1.00	0.00	C
ATOM	5259	C	ASP	A	667	42.768	91.654	-40.320	1.00	0.00	C
ATOM	5260	O	ASP	A	667	42.281	90.786	-41.042	1.00	0.00	O
ATOM	5261	CB	ASP	A	667	43.633	93.518	-41.710	1.00	0.00	C
ATOM	5262	CG	ASP	A	667	44.824	94.305	-42.208	1.00	0.00	C
ATOM	5263	OD1	ASP	A	667	45.590	94.819	-41.366	1.00	0.00	O
ATOM	5264	OD2	ASP	A	667	44.991	94.411	-43.441	1.00	0.00	O
ATOM	5265	N	VAL	A	668	42.240	92.002	-39.157	1.00	0.00	N
ATOM	5266	CA	VAL	A	668	41.024	91.375	-38.661	1.00	0.00	C
ATOM	5267	C	VAL	A	668	39.862	91.771	-39.564	1.00	0.00	C
ATOM	5268	O	VAL	A	668	39.807	92.902	-40.054	1.00	0.00	O
ATOM	5269	CB	VAL	A	668	40.714	91.830	-37.222	1.00	0.00	C
ATOM	5270	CG1	VAL	A	668	39.391	91.232	-36.756	1.00	0.00	C
ATOM	5271	CG2	VAL	A	668	41.850	91.410	-36.291	1.00	0.00	C
ATOM	5272	N	LYS	A	669	38.947	90.833	-39.789	1.00	0.00	N
ATOM	5273	CA	LYS	A	669	37.769	91.067	-40.621	1.00	0.00	C
ATOM	5274	C	LYS	A	669	36.545	91.132	-39.712	1.00	0.00	C
ATOM	5275	O	LYS	A	669	36.541	90.542	-38.629	1.00	0.00	O
ATOM	5276	CB	LYS	A	669	37.615	89.931	-41.636	1.00	0.00	C
ATOM	5277	CG	LYS	A	669	38.809	89.796	-42.574	1.00	0.00	C
ATOM	5278	CD	LYS	A	669	38.917	88.397	-43.173	1.00	0.00	C
ATOM	5279	CE	LYS	A	669	40.205	88.245	-43.982	1.00	0.00	C
ATOM	5280	NZ	LYS	A	669	40.454	86.840	-44.416	1.00	0.00	N
ATOM	5281	N	PHE	A	670	35.511	91.851	-40.146	1.00	0.00	N
ATOM	5282	CA	PHE	A	670	34.299	91.985	-39.348	1.00	0.00	C
ATOM	5283	C	PHE	A	670	33.047	91.602	-40.129	1.00	0.00	C
ATOM	5284	O	PHE	A	670	33.088	91.433	-41.347	1.00	0.00	O
ATOM	5285	CB	PHE	A	670	34.156	93.422	-38.831	1.00	0.00	C
ATOM	5286	CG	PHE	A	670	35.342	93.906	-38.053	1.00	0.00	C
ATOM	5287	CD1	PHE	A	670	36.470	94.389	-38.709	1.00	0.00	C
ATOM	5288	CD2	PHE	A	670	35.350	93.845	-36.663	1.00	0.00	C
ATOM	5289	CE1	PHE	A	670	37.589	94.801	-37.991	1.00	0.00	C
ATOM	5290	CE2	PHE	A	670	36.464	94.254	-35.938	1.00	0.00	C
ATOM	5291	CZ	PHE	A	670	37.586	94.733	-36.604	1.00	0.00	C
ATOM	5292	N	GLY	A	671	31.935	91.463	-39.417	1.00	0.00	N
ATOM	5293	CA	GLY	A	671	30.684	91.109	-40.064	1.00	0.00	C
ATOM	5294	C	GLY	A	671	29.565	90.909	-39.065	1.00	0.00	C
ATOM	5295	O	GLY	A	671	29.808	90.815	-37.861	1.00	0.00	O
ATOM	5296	N	ASP	A	672	28.331	90.854	-39.554	1.00	0.00	N
ATOM	5297	CA	ASP	A	672	27.197	90.638	-38.671	1.00	0.00	C
ATOM	5298	C	ASP	A	672	27.188	89.169	-38.265	1.00	0.00	C
ATOM	5299	O	ASP	A	672	27.696	88.315	-38.990	1.00	0.00	O
ATOM	5300	CB	ASP	A	672	25.873	90.954	-39.373	1.00	0.00	C
ATOM	5301	CG	ASP	A	672	25.705	92.427	-39.684	1.00	0.00	C
ATOM	5302	OD1	ASP	A	672	26.368	93.262	-39.036	1.00	0.00	O
ATOM	5303	OD2	ASP	A	672	24.885	92.749	-40.570	1.00	0.00	O
ATOM	5304	N	PRO	A	673	26.615	88.860	-37.095	1.00	0.00	N

ATOM	5305	CA	PRO	A	673	26.553	87.474	-36.625	1.00	0.00	C
ATOM	5306	C	PRO	A	673	25.942	86.587	-37.711	1.00	0.00	C
ATOM	5307	O	PRO	A	673	25.003	86.990	-38.398	1.00	0.00	O
ATOM	5308	CB	PRO	A	673	25.657	87.573	-35.396	1.00	0.00	C
ATOM	5309	CG	PRO	A	673	25.978	88.931	-34.862	1.00	0.00	C
ATOM	5310	CD	PRO	A	673	26.010	89.777	-36.112	1.00	0.00	C
ATOM	5311	N	ARG	A	674	26.488	85.389	-37.875	1.00	0.00	N
ATOM	5312	CA	ARG	A	674	25.984	84.457	-38.876	1.00	0.00	C
ATOM	5313	C	ARG	A	674	26.505	83.060	-38.581	1.00	0.00	C
ATOM	5314	O	ARG	A	674	27.494	82.901	-37.867	1.00	0.00	O
ATOM	5315	CB	ARG	A	674	26.428	84.876	-40.280	1.00	0.00	C
ATOM	5316	CG	ARG	A	674	27.925	84.753	-40.542	1.00	0.00	C
ATOM	5317	CD	ARG	A	674	28.206	84.818	-42.036	1.00	0.00	C
ATOM	5318	NE	ARG	A	674	29.585	84.475	-42.371	1.00	0.00	N
ATOM	5319	CZ	ARG	A	674	30.601	85.331	-42.359	1.00	0.00	C
ATOM	5320	NH1	ARG	A	674	30.406	86.601	-42.027	1.00	0.00	N
ATOM	5321	NH2	ARG	A	674	31.816	84.915	-42.691	1.00	0.00	N
ATOM	5322	N	GLU	A	675	25.841	82.047	-39.125	1.00	0.00	N
ATOM	5323	CA	GLU	A	675	26.286	80.682	-38.903	1.00	0.00	C
ATOM	5324	C	GLU	A	675	27.589	80.477	-39.654	1.00	0.00	C
ATOM	5325	O	GLU	A	675	27.811	81.080	-40.708	1.00	0.00	O
ATOM	5326	CB	GLU	A	675	25.238	79.679	-39.388	1.00	0.00	C
ATOM	5327	CG	GLU	A	675	23.878	79.856	-38.740	1.00	0.00	C
ATOM	5328	CD	GLU	A	675	23.065	78.578	-38.738	1.00	0.00	C
ATOM	5329	OE1	GLU	A	675	23.073	77.863	-39.763	1.00	0.00	O
ATOM	5330	OE2	GLU	A	675	22.412	78.296	-37.709	1.00	0.00	O
ATOM	5331	N	ILE	A	676	28.462	79.642	-39.103	1.00	0.00	N
ATOM	5332	CA	ILE	A	676	29.739	79.376	-39.743	1.00	0.00	C
ATOM	5333	C	ILE	A	676	30.089	77.902	-39.660	1.00	0.00	C
ATOM	5334	O	ILE	A	676	29.577	77.173	-38.809	1.00	0.00	O
ATOM	5335	CB	ILE	A	676	30.886	80.171	-39.087	1.00	0.00	C
ATOM	5336	CG1	ILE	A	676	31.114	79.672	-37.662	1.00	0.00	C
ATOM	5337	CG2	ILE	A	676	30.557	81.657	-39.076	1.00	0.00	C
ATOM	5338	CD1	ILE	A	676	32.429	80.119	-37.071	1.00	0.00	C
ATOM	5339	N	SER	A	677	30.970	77.480	-40.555	1.00	0.00	N
ATOM	5340	CA	SER	A	677	31.427	76.103	-40.610	1.00	0.00	C
ATOM	5341	C	SER	A	677	32.948	76.133	-40.674	1.00	0.00	C
ATOM	5342	O	SER	A	677	33.528	77.013	-41.308	1.00	0.00	O
ATOM	5343	CB	SER	A	677	30.862	75.413	-41.853	1.00	0.00	C
ATOM	5344	OG	SER	A	677	31.334	74.083	-41.948	1.00	0.00	O
ATOM	5345	N	LEU	A	678	33.593	75.179	-40.012	1.00	0.00	N
ATOM	5346	CA	LEU	A	678	35.049	75.115	-40.003	1.00	0.00	C
ATOM	5347	C	LEU	A	678	35.549	73.683	-40.098	1.00	0.00	C
ATOM	5348	O	LEU	A	678	34.884	72.748	-39.642	1.00	0.00	O
ATOM	5349	CB	LEU	A	678	35.609	75.740	-38.721	1.00	0.00	C
ATOM	5350	CG	LEU	A	678	35.617	77.262	-38.558	1.00	0.00	C
ATOM	5351	CD1	LEU	A	678	36.028	77.618	-37.136	1.00	0.00	C
ATOM	5352	CD2	LEU	A	678	36.583	77.880	-39.551	1.00	0.00	C
ATOM	5353	N	ARG	A	679	36.728	73.527	-40.690	1.00	0.00	N
ATOM	5354	CA	ARG	A	679	37.353	72.222	-40.828	1.00	0.00	C
ATOM	5355	C	ARG	A	679	38.872	72.350	-40.839	1.00	0.00	C
ATOM	5356	O	ARG	A	679	39.442	73.052	-41.678	1.00	0.00	O
ATOM	5357	CB	ARG	A	679	36.904	71.527	-42.114	1.00	0.00	C
ATOM	5358	CG	ARG	A	679	37.394	70.091	-42.189	1.00	0.00	C
ATOM	5359	CD	ARG	A	679	37.126	69.442	-43.533	1.00	0.00	C
ATOM	5360	NE	ARG	A	679	37.546	68.044	-43.514	1.00	0.00	N
ATOM	5361	CZ	ARG	A	679	37.573	67.252	-44.580	1.00	0.00	C
ATOM	5362	NH1	ARG	A	679	37.203	67.719	-45.767	1.00	0.00	N
ATOM	5363	NH2	ARG	A	679	37.972	65.993	-44.458	1.00	0.00	N
ATOM	5364	N	VAL	A	680	39.525	71.676	-39.898	1.00	0.00	N
ATOM	5365	CA	VAL	A	680	40.978	71.697	-39.822	1.00	0.00	C

	ATOM	5366	C	VAL	A	680	41.509	70.345	-40.291	1.00	0.00	C
	ATOM	5367	O	VAL	A	680	41.008	69.298	-39.876	1.00	0.00	O
	ATOM	5368	CB	VAL	A	680	41.459	71.964	-38.384	1.00	0.00	C
	ATOM	5369	CG1	VAL	A	680	42.976	71.884	-38.318	1.00	0.00	C
5	ATOM	5370	CG2	VAL	A	680	40.980	73.341	-37.928	1.00	0.00	C
	ATOM	5371	N	GLY	A	681	42.515	70.375	-41.160	1.00	0.00	N
	ATOM	5372	CA	GLY	A	681	43.086	69.144	-41.677	1.00	0.00	C
	ATOM	5373	C	GLY	A	681	42.016	68.264	-42.298	1.00	0.00	C
	ATOM	5374	O	GLY	A	681	41.088	68.762	-42.937	1.00	0.00	O
10	ATOM	5375	N	ASN	A	682	42.142	66.954	-42.112	1.00	0.00	N
	ATOM	5376	CA	ASN	A	682	41.165	66.013	-42.649	1.00	0.00	C
	ATOM	5377	C	ASN	A	682	40.206	65.593	-41.546	1.00	0.00	C
	ATOM	5378	O	ASN	A	682	39.487	64.603	-41.677	1.00	0.00	O
	ATOM	5379	CB	ASN	A	682	41.863	64.776	-43.216	1.00	0.00	C
15	ATOM	5380	CG	ASN	A	682	42.643	65.072	-44.480	1.00	0.00	C
	ATOM	5381	OD1	ASN	A	682	43.187	64.166	-45.108	1.00	0.00	O
	ATOM	5382	ND2	ASN	A	682	42.702	66.343	-44.861	1.00	0.00	N
	ATOM	5383	N	GLY	A	683	40.205	66.356	-40.457	1.00	0.00	N
	ATOM	5384	CA	GLY	A	683	39.338	66.054	-39.334	1.00	0.00	C
20	ATOM	5385	C	GLY	A	683	37.875	66.320	-39.620	1.00	0.00	C
	ATOM	5386	O	GLY	A	683	37.484	66.446	-40.780	1.00	0.00	O
	ATOM	5387	N	PRO	A	684	37.035	66.410	-38.577	1.00	0.00	N
	ATOM	5388	CA	PRO	A	684	35.605	66.664	-38.763	1.00	0.00	C
	ATOM	5389	C	PRO	A	684	35.305	68.106	-39.162	1.00	0.00	C
25	ATOM	5390	O	PRO	A	684	36.141	68.994	-39.005	1.00	0.00	O
	ATOM	5391	CB	PRO	A	684	35.018	66.315	-37.400	1.00	0.00	C
	ATOM	5392	CG	PRO	A	684	36.104	66.759	-36.464	1.00	0.00	C
	ATOM	5393	CD	PRO	A	684	37.358	66.243	-37.147	1.00	0.00	C
	ATOM	5394	N	THR	A	685	34.109	68.320	-39.695	1.00	0.00	N
30	ATOM	5395	CA	THR	A	685	33.668	69.650	-40.090	1.00	0.00	C
	ATOM	5396	C	THR	A	685	32.606	70.042	-39.075	1.00	0.00	C
	ATOM	5397	O	THR	A	685	31.611	69.337	-38.908	1.00	0.00	O
	ATOM	5398	CB	THR	A	685	33.050	69.647	-41.504	1.00	0.00	C
	ATOM	5399	OG1	THR	A	685	34.052	69.280	-42.458	1.00	0.00	O
35	ATOM	5400	CG2	THR	A	685	32.500	71.028	-41.853	1.00	0.00	C
	ATOM	5401	N	LEU	A	686	32.824	71.160	-38.390	1.00	0.00	N
	ATOM	5402	CA	LEU	A	686	31.886	71.618	-37.376	1.00	0.00	C
	ATOM	5403	C	LEU	A	686	31.119	72.858	-37.813	1.00	0.00	C
	ATOM	5404	O	LEU	A	686	31.684	73.772	-38.414	1.00	0.00	O
40	ATOM	5405	CB	LEU	A	686	32.622	71.920	-36.066	1.00	0.00	C
	ATOM	5406	CG	LEU	A	686	33.544	70.858	-35.460	1.00	0.00	C
	ATOM	5407	CD1	LEU	A	686	33.962	71.315	-34.063	1.00	0.00	C
	ATOM	5408	CD2	LEU	A	686	32.847	69.510	-35.390	1.00	0.00	C
	ATOM	5409	N	ALA	A	687	29.828	72.875	-37.502	1.00	0.00	N
45	ATOM	5410	CA	ALA	A	687	28.964	73.997	-37.841	1.00	0.00	C
	ATOM	5411	C	ALA	A	687	28.488	74.652	-36.553	1.00	0.00	C
	ATOM	5412	O	ALA	A	687	28.122	73.965	-35.597	1.00	0.00	O
	ATOM	5413	CB	ALA	A	687	27.769	73.517	-38.657	1.00	0.00	C
	ATOM	5414	N	PHE	A	688	28.491	75.980	-36.536	1.00	0.00	N
50	ATOM	5415	CA	PHE	A	688	28.074	76.739	-35.367	1.00	0.00	C
	ATOM	5416	C	PHE	A	688	26.922	77.683	-35.689	1.00	0.00	C
	ATOM	5417	O	PHE	A	688	26.763	78.122	-36.829	1.00	0.00	O
	ATOM	5418	CB	PHE	A	688	29.242	77.572	-34.828	1.00	0.00	C
	ATOM	5419	CG	PHE	A	688	30.478	76.775	-34.529	1.00	0.00	C
55	ATOM	5420	CD1	PHE	A	688	31.288	76.305	-35.558	1.00	0.00	C
	ATOM	5421	CD2	PHE	A	688	30.837	76.501	-33.213	1.00	0.00	C
	ATOM	5422	CE1	PHE	A	688	32.441	75.576	-35.282	1.00	0.00	C
	ATOM	5423	CE2	PHE	A	688	31.987	75.772	-32.925	1.00	0.00	C
	ATOM	5424	CZ	PHE	A	688	32.792	75.308	-33.961	1.00	0.00	C
60	ATOM	5425	N	SER	A	689	26.130	78.001	-34.673	1.00	0.00	N
	ATOM	5426	CA	SER	A	689	25.007	78.917	-34.834	1.00	0.00	C

ATOM	5427	C	SER	A	689	25.576	80.335	-34.813	1.00	0.00	C
ATOM	5428	O	SER	A	689	26.767	80.527	-34.558	1.00	0.00	O
ATOM	5429	CB	SER	A	689	24.016	78.744	-33.684	1.00	0.00	C
ATOM	5430	OG	SER	A	689	24.568	79.221	-32.469	1.00	0.00	O
ATOM	5431	N	GLU	A	690	24.731	81.326	-35.079	1.00	0.00	N
ATOM	5432	CA	GLU	A	690	25.187	82.710	-35.082	1.00	0.00	C
ATOM	5433	C	GLU	A	690	25.540	83.190	-33.674	1.00	0.00	C
ATOM	5434	O	GLU	A	690	26.025	84.308	-33.495	1.00	0.00	O
ATOM	5435	CB	GLU	A	690	24.126	83.628	-35.699	1.00	0.00	C
ATOM	5436	CG	GLU	A	690	22.857	83.776	-34.885	1.00	0.00	C
ATOM	5437	CD	GLU	A	690	21.918	84.811	-35.478	1.00	0.00	C
ATOM	5438	OE1	GLU	A	690	21.437	84.597	-36.612	1.00	0.00	O
ATOM	5439	OE2	GLU	A	690	21.670	85.841	-34.814	1.00	0.00	O
ATOM	5440	N	GLN	A	691	25.287	82.347	-32.677	1.00	0.00	N
ATOM	5441	CA	GLN	A	691	25.619	82.678	-31.294	1.00	0.00	C
ATOM	5442	C	GLN	A	691	26.954	82.023	-30.928	1.00	0.00	C
ATOM	5443	O	GLN	A	691	27.361	82.025	-29.767	1.00	0.00	O
ATOM	5444	CB	GLN	A	691	24.525	82.188	-30.345	1.00	0.00	C
ATOM	5445	CG	GLN	A	691	23.212	82.931	-30.489	1.00	0.00	C
ATOM	5446	CD	GLN	A	691	22.019	82.012	-30.371	1.00	0.00	C
ATOM	5447	OE1	GLN	A	691	21.820	81.356	-29.346	1.00	0.00	O
ATOM	5448	NE2	GLN	A	691	21.215	81.954	-31.429	1.00	0.00	N
ATOM	5449	N	GLY	A	692	27.623	81.457	-31.927	1.00	0.00	N
ATOM	5450	CA	GLY	A	692	28.913	80.826	-31.701	1.00	0.00	C
ATOM	5451	C	GLY	A	692	28.879	79.488	-30.984	1.00	0.00	C
ATOM	5452	O	GLY	A	692	29.877	79.068	-30.399	1.00	0.00	O
ATOM	5453	N	LEU	A	693	27.738	78.811	-31.028	1.00	0.00	N
ATOM	5454	CA	LEU	A	693	27.599	77.515	-30.371	1.00	0.00	C
ATOM	5455	C	LEU	A	693	27.504	76.373	-31.371	1.00	0.00	C
ATOM	5456	O	LEU	A	693	26.909	76.513	-32.443	1.00	0.00	O
ATOM	5457	CB	LEU	A	693	26.363	77.519	-29.470	1.00	0.00	C
ATOM	5458	CG	LEU	A	693	26.458	78.426	-28.240	1.00	0.00	C
ATOM	5459	CD1	LEU	A	693	25.062	78.762	-27.736	1.00	0.00	C
ATOM	5460	CD2	LEU	A	693	27.278	77.743	-27.162	1.00	0.00	C
ATOM	5461	N	LEU	A	694	28.090	75.236	-31.009	1.00	0.00	N
ATOM	5462	CA	LEU	A	694	28.083	74.058	-31.865	1.00	0.00	C
ATOM	5463	C	LEU	A	694	26.657	73.654	-32.222	1.00	0.00	C
ATOM	5464	O	LEU	A	694	25.765	73.697	-31.378	1.00	0.00	O
ATOM	5465	CB	LEU	A	694	28.783	72.893	-31.160	1.00	0.00	C
ATOM	5466	CG	LEU	A	694	28.965	71.617	-31.987	1.00	0.00	C
ATOM	5467	CD1	LEU	A	694	29.942	71.878	-33.125	1.00	0.00	C
ATOM	5468	CD2	LEU	A	694	29.488	70.498	-31.089	1.00	0.00	C
ATOM	5469	N	LYS	A	695	26.457	73.265	-33.478	1.00	0.00	N
ATOM	5470	CA	LYS	A	695	25.146	72.847	-33.960	1.00	0.00	C
ATOM	5471	C	LYS	A	695	25.196	71.465	-34.599	1.00	0.00	C
ATOM	5472	O	LYS	A	695	24.229	70.710	-34.524	1.00	0.00	O
ATOM	5473	CB	LYS	A	695	24.611	73.867	-34.971	1.00	0.00	C
ATOM	5474	CG	LYS	A	695	23.343	73.447	-35.694	1.00	0.00	C
ATOM	5475	CD	LYS	A	695	22.666	74.640	-36.374	1.00	0.00	C
ATOM	5476	CE	LYS	A	695	22.146	75.636	-35.340	1.00	0.00	C
ATOM	5477	NZ	LYS	A	695	21.441	76.797	-35.955	1.00	0.00	N
ATOM	5478	N	SER	A	696	26.323	71.134	-35.226	1.00	0.00	N
ATOM	5479	CA	SER	A	696	26.471	69.836	-35.876	1.00	0.00	C
ATOM	5480	C	SER	A	696	27.928	69.449	-36.092	1.00	0.00	C
ATOM	5481	O	SER	A	696	28.814	70.306	-36.134	1.00	0.00	O
ATOM	5482	CB	SER	A	696	25.753	69.839	-37.230	1.00	0.00	C
ATOM	5483	OG	SER	A	696	26.466	70.610	-38.183	1.00	0.00	O
ATOM	5484	N	ILE	A	697	28.159	68.146	-36.234	1.00	0.00	N
ATOM	5485	CA	ILE	A	697	29.490	67.598	-36.467	1.00	0.00	C
ATOM	5486	C	ILE	A	697	29.441	66.634	-37.653	1.00	0.00	C
ATOM	5487	O	ILE	A	697	28.601	65.731	-37.687	1.00	0.00	O

	ATOM	5488	CB	ILE	A	697	30.003	66.793	-35.248	1.00	0.00	C
	ATOM	5489	CG1	ILE	A	697	30.124	67.696	-34.020	1.00	0.00	C
	ATOM	5490	CG2	ILE	A	697	31.349	66.157	-35.573	1.00	0.00	C
	ATOM	5491	CD1	ILE	A	697	30.600	66.963	-32.774	1.00	0.00	C
5	ATOM	5492	N	GLN	A	698	30.330	66.831	-38.620	1.00	0.00	N
	ATOM	5493	CA	GLN	A	698	30.404	65.949	-39.779	1.00	0.00	C
	ATOM	5494	C	GLN	A	698	31.751	65.240	-39.717	1.00	0.00	C
	ATOM	5495	O	GLN	A	698	32.796	65.856	-39.939	1.00	0.00	O
	ATOM	5496	CB	GLN	A	698	30.302	66.735	-41.090	1.00	0.00	C
10	ATOM	5497	CG	GLN	A	698	29.993	65.836	-42.286	1.00	0.00	C
	ATOM	5498	CD	GLN	A	698	30.220	66.514	-43.624	1.00	0.00	C
	ATOM	5499	OE1	GLN	A	698	29.673	66.092	-44.645	1.00	0.00	O
	ATOM	5500	NE2	GLN	A	698	31.038	67.557	-43.629	1.00	0.00	N
	ATOM	5501	N	LEU	A	699	31.725	63.945	-39.419	1.00	0.00	N
15	ATOM	5502	CA	LEU	A	699	32.949	63.162	-39.295	1.00	0.00	C
	ATOM	5503	C	LEU	A	699	33.788	63.092	-40.564	1.00	0.00	C
	ATOM	5504	O	LEU	A	699	35.012	63.210	-40.510	1.00	0.00	O
	ATOM	5505	CB	LEU	A	699	32.618	61.746	-38.814	1.00	0.00	C
	ATOM	5506	CG	LEU	A	699	31.900	61.656	-37.462	1.00	0.00	C
20	ATOM	5507	CD1	LEU	A	699	31.706	60.197	-37.080	1.00	0.00	C
	ATOM	5508	CD2	LEU	A	699	32.714	62.377	-36.399	1.00	0.00	C
	ATOM	5509	N	THR	A	700	33.138	62.891	-41.704	1.00	0.00	N
	ATOM	5510	CA	THR	A	700	33.853	62.810	-42.973	1.00	0.00	C
	ATOM	5511	C	THR	A	700	33.128	63.618	-44.040	1.00	0.00	C
25	ATOM	5512	O	THR	A	700	31.962	63.969	-43.875	1.00	0.00	O
	ATOM	5513	CB	THR	A	700	33.976	61.348	-43.454	1.00	0.00	C
	ATOM	5514	OG1	THR	A	700	32.669	60.792	-43.647	1.00	0.00	O
	ATOM	5515	CG2	THR	A	700	34.730	60.518	-42.431	1.00	0.00	C
	ATOM	5516	N	GLN	A	701	33.824	63.915	-45.132	1.00	0.00	N
30	ATOM	5517	CA	GLN	A	701	33.237	64.689	-46.221	1.00	0.00	C
	ATOM	5518	C	GLN	A	701	32.010	63.982	-46.783	1.00	0.00	C
	ATOM	5519	O	GLN	A	701	31.122	64.617	-47.350	1.00	0.00	O
	ATOM	5520	CB	GLN	A	701	34.263	64.897	-47.336	1.00	0.00	C
	ATOM	5521	CG	GLN	A	701	35.585	65.458	-46.852	1.00	0.00	C
35	ATOM	5522	CD	GLN	A	701	36.471	65.922	-47.990	1.00	0.00	C
	ATOM	5523	OE1	GLN	A	701	36.103	66.821	-48.749	1.00	0.00	O
	ATOM	5524	NE2	GLN	A	701	37.648	65.313	-48.114	1.00	0.00	N
	ATOM	5525	N	ASP	A	702	31.968	62.666	-46.613	1.00	0.00	N
	ATOM	5526	CA	ASP	A	702	30.858	61.857	-47.104	1.00	0.00	C
40	ATOM	5527	C	ASP	A	702	29.703	61.853	-46.107	1.00	0.00	C
	ATOM	5528	O	ASP	A	702	28.558	62.142	-46.459	1.00	0.00	O
	ATOM	5529	CB	ASP	A	702	31.327	60.418	-47.327	1.00	0.00	C
	ATOM	5530	CG	ASP	A	702	32.718	60.344	-47.923	1.00	0.00	C
	ATOM	5531	OD1	ASP	A	702	32.907	60.816	-49.067	1.00	0.00	O
45	ATOM	5532	OD2	ASP	A	702	33.625	59.816	-47.241	1.00	0.00	O
	ATOM	5533	N	SER	A	703	30.022	61.520	-44.860	1.00	0.00	N
	ATOM	5534	CA	SER	A	703	29.037	61.449	-43.788	1.00	0.00	C
	ATOM	5535	C	SER	A	703	28.156	62.691	-43.688	1.00	0.00	C
	ATOM	5536	O	SER	A	703	28.481	63.747	-44.229	1.00	0.00	O
50	ATOM	5537	CB	SER	A	703	29.747	61.215	-42.452	1.00	0.00	C
	ATOM	5538	OG	SER	A	703	30.677	62.249	-42.182	1.00	0.00	O
	ATOM	5539	N	PRO	A	704	27.016	62.571	-42.989	1.00	0.00	N
	ATOM	5540	CA	PRO	A	704	26.075	63.676	-42.807	1.00	0.00	C
	ATOM	5541	C	PRO	A	704	26.439	64.570	-41.625	1.00	0.00	C
55	ATOM	5542	O	PRO	A	704	27.338	64.253	-40.845	1.00	0.00	O
	ATOM	5543	CB	PRO	A	704	24.757	62.955	-42.583	1.00	0.00	C
	ATOM	5544	CG	PRO	A	704	25.187	61.782	-41.767	1.00	0.00	C
	ATOM	5545	CD	PRO	A	704	26.429	61.308	-42.500	1.00	0.00	C
	ATOM	5546	N	HIS	A	705	25.726	65.686	-41.504	1.00	0.00	N
60	ATOM	5547	CA	HIS	A	705	25.941	66.633	-40.417	1.00	0.00	C
	ATOM	5548	C	HIS	A	705	25.131	66.183	-39.209	1.00	0.00	C

	ATOM	5549	O	HIS	A	705	23.948	66.493	-39.093	1.00	0.00	O
	ATOM	5550	CB	HIS	A	705	25.498	68.034	-40.843	1.00	0.00	C
	ATOM	5551	CG	HIS	A	705	26.334	68.625	-41.935	1.00	0.00	C
	ATOM	5552	ND1	HIS	A	705	27.666	68.935	-41.767	1.00	0.00	N
5	ATOM	5553	CD2	HIS	A	705	26.032	68.946	-43.215	1.00	0.00	C
	ATOM	5554	CE1	HIS	A	705	28.150	69.420	-42.896	1.00	0.00	C
	ATOM	5555	NE2	HIS	A	705	27.178	69.437	-43.791	1.00	0.00	N
	ATOM	5556	N	VAL	A	706	25.775	65.446	-38.312	1.00	0.00	N
	ATOM	5557	CA	VAL	A	706	25.106	64.947	-37.119	1.00	0.00	C
10	ATOM	5558	C	VAL	A	706	24.757	66.073	-36.153	1.00	0.00	C
	ATOM	5559	O	VAL	A	706	25.624	66.842	-35.747	1.00	0.00	O
	ATOM	5560	CB	VAL	A	706	25.993	63.918	-36.385	1.00	0.00	C
	ATOM	5561	CG1	VAL	A	706	25.277	63.399	-35.150	1.00	0.00	C
	ATOM	5562	CG2	VAL	A	706	26.336	62.774	-37.322	1.00	0.00	C
15	ATOM	5563	N	PRO	A	707	23.473	66.187	-35.778	1.00	0.00	N
	ATOM	5564	CA	PRO	A	707	23.024	67.230	-34.852	1.00	0.00	C
	ATOM	5565	C	PRO	A	707	23.628	67.088	-33.453	1.00	0.00	C
	ATOM	5566	O	PRO	A	707	23.377	66.107	-32.753	1.00	0.00	O
	ATOM	5567	CB	PRO	A	707	21.506	67.047	-34.834	1.00	0.00	C
20	ATOM	5568	CG	PRO	A	707	21.214	66.477	-36.190	1.00	0.00	C
	ATOM	5569	CD	PRO	A	707	22.320	65.466	-36.346	1.00	0.00	C
	ATOM	5570	N	VAL	A	708	24.434	68.069	-33.063	1.00	0.00	N
	ATOM	5571	CA	VAL	A	708	25.068	68.098	-31.746	1.00	0.00	C
	ATOM	5572	C	VAL	A	708	25.046	69.568	-31.350	1.00	0.00	C
25	ATOM	5573	O	VAL	A	708	25.821	70.369	-31.865	1.00	0.00	O
	ATOM	5574	CB	VAL	A	708	26.529	67.592	-31.802	1.00	0.00	C
	ATOM	5575	CG1	VAL	A	708	27.164	67.665	-30.415	1.00	0.00	C
	ATOM	5576	CG2	VAL	A	708	26.561	66.162	-32.317	1.00	0.00	C
	ATOM	5577	N	HIS	A	709	24.141	69.922	-30.447	1.00	0.00	N
30	ATOM	5578	CA	HIS	A	709	23.999	71.310	-30.034	1.00	0.00	C
	ATOM	5579	C	HIS	A	709	24.441	71.582	-28.606	1.00	0.00	C
	ATOM	5580	O	HIS	A	709	24.063	70.864	-27.681	1.00	0.00	O
	ATOM	5581	CB	HIS	A	709	22.539	71.753	-30.183	1.00	0.00	C
	ATOM	5582	CG	HIS	A	709	22.007	71.652	-31.578	1.00	0.00	C
35	ATOM	5583	ND1	HIS	A	709	21.637	72.758	-32.316	1.00	0.00	N
	ATOM	5584	CD2	HIS	A	709	21.754	70.577	-32.362	1.00	0.00	C
	ATOM	5585	CE1	HIS	A	709	21.177	72.367	-33.491	1.00	0.00	C
	ATOM	5586	NE2	HIS	A	709	21.237	71.049	-33.545	1.00	0.00	N
	ATOM	5587	N	PHE	A	710	25.247	72.626	-28.441	1.00	0.00	N
40	ATOM	5588	CA	PHE	A	710	25.708	73.044	-27.125	1.00	0.00	C
	ATOM	5589	C	PHE	A	710	24.733	74.129	-26.682	1.00	0.00	C
	ATOM	5590	O	PHE	A	710	24.297	74.961	-27.491	1.00	0.00	O
	ATOM	5591	CB	PHE	A	710	27.127	73.621	-27.198	1.00	0.00	C
	ATOM	5592	CG	PHE	A	710	28.206	72.677	-26.719	1.00	0.00	C
45	ATOM	5593	CD1	PHE	A	710	29.372	72.502	-27.460	1.00	0.00	C
	ATOM	5594	CD2	PHE	A	710	28.075	71.996	-25.511	1.00	0.00	C
	ATOM	5595	CE1	PHE	A	710	30.393	71.665	-27.004	1.00	0.00	C
	ATOM	5596	CE2	PHE	A	710	29.090	71.157	-25.046	1.00	0.00	C
	ATOM	5597	CZ	PHE	A	710	30.249	70.992	-25.794	1.00	0.00	C
50	ATOM	5598	N	LYS	A	711	24.386	74.114	-25.403	1.00	0.00	N
	ATOM	5599	CA	LYS	A	711	23.460	75.090	-24.854	1.00	0.00	C
	ATOM	5600	C	LYS	A	711	23.782	75.306	-23.385	1.00	0.00	C
	ATOM	5601	O	LYS	A	711	24.162	74.369	-22.683	1.00	0.00	O
	ATOM	5602	CB	LYS	A	711	22.022	74.581	-25.003	1.00	0.00	C
55	ATOM	5603	CG	LYS	A	711	20.971	75.484	-24.386	1.00	0.00	C
	ATOM	5604	CD	LYS	A	711	19.576	74.871	-24.505	1.00	0.00	C
	ATOM	5605	CE	LYS	A	711	19.139	74.740	-25.956	1.00	0.00	C
	ATOM	5606	NZ	LYS	A	711	17.802	74.087	-26.064	1.00	0.00	N
	ATOM	5607	N	PHE	A	712	23.638	76.543	-22.924	1.00	0.00	N
60	ATOM	5608	CA	PHE	A	712	23.899	76.859	-21.530	1.00	0.00	C
	ATOM	5609	C	PHE	A	712	22.590	77.208	-20.843	1.00	0.00	C

	ATOM	5610	O	PHE A 712	21.803	78.000	-21.361	1.00	0.00	O
	ATOM	5611	CB	PHE A 712	24.890	78.025	-21.412	1.00	0.00	C
	ATOM	5612	CG	PHE A 712	26.310	77.643	-21.723	1.00	0.00	C
	ATOM	5613	CD1	PHE A 712	26.792	77.687	-23.028	1.00	0.00	C
5	ATOM	5614	CD2	PHE A 712	27.153	77.194	-20.712	1.00	0.00	C
	ATOM	5615	CE1	PHE A 712	28.095	77.287	-23.321	1.00	0.00	C
	ATOM	5616	CE2	PHE A 712	28.457	76.791	-20.992	1.00	0.00	C
	ATOM	5617	CZ	PHE A 712	28.929	76.836	-22.298	1.00	0.00	C
	ATOM	5618	N	LEU A 713	22.346	76.594	-19.690	1.00	0.00	N
10	ATOM	5619	CA	LEU A 713	21.122	76.856	-18.945	1.00	0.00	C
	ATOM	5620	C	LEU A 713	21.452	77.152	-17.492	1.00	0.00	C
	ATOM	5621	O	LEU A 713	22.615	77.103	-17.087	1.00	0.00	O
	ATOM	5622	CB	LEU A 713	20.164	75.657	-19.033	1.00	0.00	C
	ATOM	5623	CG	LEU A 713	19.730	75.212	-20.434	1.00	0.00	C
15	ATOM	5624	CD1	LEU A 713	20.690	74.148	-20.956	1.00	0.00	C
	ATOM	5625	CD2	LEU A 713	18.311	74.644	-20.385	1.00	0.00	C
	ATOM	5626	N	LYS A 714	20.434	77.476	-16.706	1.00	0.00	N
	ATOM	5627	CA	LYS A 714	20.651	77.773	-15.304	1.00	0.00	C
	ATOM	5628	C	LYS A 714	19.588	77.169	-14.402	1.00	0.00	C
20	ATOM	5629	O	LYS A 714	18.402	77.128	-14.748	1.00	0.00	O
	ATOM	5630	CB	LYS A 714	20.710	79.289	-15.082	1.00	0.00	C
	ATOM	5631	CG	LYS A 714	19.516	80.053	-15.625	1.00	0.00	C
	ATOM	5632	CD	LYS A 714	19.541	81.521	-15.191	1.00	0.00	C
	ATOM	5633	CE	LYS A 714	20.781	82.248	-15.699	1.00	0.00	C
25	ATOM	5634	NZ	LYS A 714	20.828	83.671	-15.245	1.00	0.00	N
	ATOM	5635	N	TYR A 715	20.037	76.675	-13.251	1.00	0.00	N
	ATOM	5636	CA	TYR A 715	19.156	76.099	-12.249	1.00	0.00	C
	ATOM	5637	C	TYR A 715	19.067	77.134	-11.140	1.00	0.00	C
	ATOM	5638	O	TYR A 715	20.017	77.886	-10.912	1.00	0.00	O
30	ATOM	5639	CB	TYR A 715	19.740	74.809	-11.654	1.00	0.00	C
	ATOM	5640	CG	TYR A 715	19.645	73.587	-12.537	1.00	0.00	C
	ATOM	5641	CD1	TYR A 715	20.722	73.181	-13.324	1.00	0.00	C
	ATOM	5642	CD2	TYR A 715	18.476	72.826	-12.576	1.00	0.00	C
	ATOM	5643	CE1	TYR A 715	20.639	72.037	-14.130	1.00	0.00	C
35	ATOM	5644	CE2	TYR A 715	18.382	71.689	-13.376	1.00	0.00	C
	ATOM	5645	CZ	TYR A 715	19.463	71.299	-14.148	1.00	0.00	C
	ATOM	5646	OH	TYR A 715	19.364	70.170	-14.932	1.00	0.00	O
	ATOM	5647	N	GLY A 716	17.936	77.170	-10.449	1.00	0.00	N
	ATOM	5648	CA	GLY A 716	17.779	78.116	-9.363	1.00	0.00	C
40	ATOM	5649	C	GLY A 716	17.683	77.391	-8.036	1.00	0.00	C
	ATOM	5650	O	GLY A 716	18.004	76.202	-7.937	1.00	0.00	O
	ATOM	5651	N	VAL A 717	17.249	78.109	-7.009	1.00	0.00	N
	ATOM	5652	CA	VAL A 717	17.097	77.535	-5.681	1.00	0.00	C
	ATOM	5653	C	VAL A 717	15.641	77.683	-5.254	1.00	0.00	C
45	ATOM	5654	O	VAL A 717	14.960	78.619	-5.669	1.00	0.00	O
	ATOM	5655	CB	VAL A 717	18.014	78.246	-4.667	1.00	0.00	C
	ATOM	5656	CG1	VAL A 717	17.799	77.677	-3.280	1.00	0.00	C
	ATOM	5657	CG2	VAL A 717	19.475	78.077	-5.089	1.00	0.00	C
	ATOM	5658	N	ARG A 718	15.162	76.754	-4.436	1.00	0.00	N
50	ATOM	5659	CA	ARG A 718	13.778	76.791	-3.979	1.00	0.00	C
	ATOM	5660	C	ARG A 718	13.525	77.925	-2.995	1.00	0.00	C
	ATOM	5661	O	ARG A 718	14.353	78.213	-2.134	1.00	0.00	O
	ATOM	5662	CB	ARG A 718	13.404	75.452	-3.338	1.00	0.00	C
	ATOM	5663	CG	ARG A 718	13.490	74.288	-4.303	1.00	0.00	C
55	ATOM	5664	CD	ARG A 718	13.389	72.943	-3.602	1.00	0.00	C
	ATOM	5665	NE	ARG A 718	13.659	71.859	-4.541	1.00	0.00	N
	ATOM	5666	CZ	ARG A 718	13.687	70.570	-4.222	1.00	0.00	C
	ATOM	5667	NH1	ARG A 718	13.458	70.182	-2.973	1.00	0.00	N
	ATOM	5668	NH2	ARG A 718	13.948	69.667	-5.158	1.00	0.00	N
60	ATOM	5669	N	SER A 719	12.373	78.569	-3.132	1.00	0.00	N
	ATOM	5670	CA	SER A 719	12.006	79.668	-2.249	1.00	0.00	C

ATOM	5671	C	SER	A	719	11.347	79.114	-0.991	1.00	0.00	C
ATOM	5672	O	SER	A	719	11.191	79.819	0.003	1.00	0.00	O
ATOM	5673	CB	SER	A	719	11.044	80.618	-2.965	1.00	0.00	C
ATOM	5674	OG	SER	A	719	9.886	79.927	-3.397	1.00	0.00	O
ATOM	5675	N	HIS	A	720	10.965	77.841	-1.048	1.00	0.00	N
ATOM	5676	CA	HIS	A	720	10.320	77.174	0.077	1.00	0.00	C
ATOM	5677	C	HIS	A	720	11.030	75.865	0.407	1.00	0.00	C
ATOM	5678	O	HIS	A	720	11.457	75.139	-0.489	1.00	0.00	O
ATOM	5679	CB	HIS	A	720	8.857	76.872	-0.256	1.00	0.00	C
ATOM	5680	CG	HIS	A	720	8.080	78.069	-0.705	1.00	0.00	C
ATOM	5681	ND1	HIS	A	720	7.945	79.202	0.068	1.00	0.00	N
ATOM	5682	CD2	HIS	A	720	7.398	78.310	-1.850	1.00	0.00	C
ATOM	5683	CE1	HIS	A	720	7.213	80.090	-0.581	1.00	0.00	C
ATOM	5684	NE2	HIS	A	720	6.868	79.574	-1.748	1.00	0.00	N
ATOM	5685	N	GLY	A	721	11.154	75.571	1.697	1.00	0.00	N
ATOM	5686	CA	GLY	A	721	11.794	74.337	2.114	1.00	0.00	C
ATOM	5687	C	GLY	A	721	13.311	74.356	2.111	1.00	0.00	C
ATOM	5688	O	GLY	A	721	13.934	75.409	2.237	1.00	0.00	O
ATOM	5689	N	ASP	A	722	13.899	73.173	1.957	1.00	0.00	N
ATOM	5690	CA	ASP	A	722	15.348	72.999	1.950	1.00	0.00	C
ATOM	5691	C	ASP	A	722	16.022	73.715	0.785	1.00	0.00	C
ATOM	5692	O	ASP	A	722	15.582	73.611	-0.358	1.00	0.00	O
ATOM	5693	CB	ASP	A	722	15.681	71.505	1.904	1.00	0.00	C
ATOM	5694	CG	ASP	A	722	15.137	70.750	3.109	1.00	0.00	C
ATOM	5695	OD1	ASP	A	722	15.062	69.503	3.053	1.00	0.00	O
ATOM	5696	OD2	ASP	A	722	14.792	71.406	4.116	1.00	0.00	O
ATOM	5697	N	ARG	A	723	17.096	74.439	1.088	1.00	0.00	N
ATOM	5698	CA	ARG	A	723	17.840	75.175	0.072	1.00	0.00	C
ATOM	5699	C	ARG	A	723	19.143	74.485	-0.312	1.00	0.00	C
ATOM	5700	O	ARG	A	723	19.777	73.819	0.510	1.00	0.00	O
ATOM	5701	CB	ARG	A	723	18.163	76.594	0.557	1.00	0.00	C
ATOM	5702	CG	ARG	A	723	17.024	77.600	0.426	1.00	0.00	C
ATOM	5703	CD	ARG	A	723	15.961	77.418	1.494	1.00	0.00	C
ATOM	5704	NE	ARG	A	723	14.923	78.446	1.399	1.00	0.00	N
ATOM	5705	CZ	ARG	A	723	13.945	78.612	2.286	1.00	0.00	C
ATOM	5706	NH1	ARG	A	723	13.860	77.817	3.346	1.00	0.00	N
ATOM	5707	NH2	ARG	A	723	13.052	79.580	2.116	1.00	0.00	N
ATOM	5708	N	SER	A	724	19.536	74.657	-1.570	1.00	0.00	N
ATOM	5709	CA	SER	A	724	20.772	74.081	-2.075	1.00	0.00	C
ATOM	5710	C	SER	A	724	21.948	74.758	-1.383	1.00	0.00	C
ATOM	5711	O	SER	A	724	21.888	75.948	-1.056	1.00	0.00	O
ATOM	5712	CB	SER	A	724	20.882	74.300	-3.586	1.00	0.00	C
ATOM	5713	OG	SER	A	724	19.801	73.699	-4.277	1.00	0.00	O
ATOM	5714	N	GLY	A	725	23.015	73.996	-1.166	1.00	0.00	N
ATOM	5715	CA	GLY	A	725	24.209	74.528	-0.527	1.00	0.00	C
ATOM	5716	C	GLY	A	725	25.431	73.840	-1.110	1.00	0.00	C
ATOM	5717	O	GLY	A	725	25.356	73.275	-2.202	1.00	0.00	O
ATOM	5718	N	ALA	A	726	26.550	73.871	-0.391	1.00	0.00	N
ATOM	5719	CA	ALA	A	726	27.780	73.243	-0.867	1.00	0.00	C
ATOM	5720	C	ALA	A	726	27.626	71.737	-1.104	1.00	0.00	C
ATOM	5721	O	ALA	A	726	28.261	71.175	-2.000	1.00	0.00	O
ATOM	5722	CB	ALA	A	726	28.917	73.496	0.131	1.00	0.00	C
ATOM	5723	N	TYR	A	727	26.785	71.088	-0.304	1.00	0.00	N
ATOM	5724	CA	TYR	A	727	26.581	69.646	-0.436	1.00	0.00	C
ATOM	5725	C	TYR	A	727	25.375	69.273	-1.286	1.00	0.00	C
ATOM	5726	O	TYR	A	727	25.474	68.466	-2.213	1.00	0.00	O
ATOM	5727	CB	TYR	A	727	26.377	68.994	0.935	1.00	0.00	C
ATOM	5728	CG	TYR	A	727	27.394	69.345	1.985	1.00	0.00	C
ATOM	5729	CD1	TYR	A	727	27.235	70.472	2.793	1.00	0.00	C
ATOM	5730	CD2	TYR	A	727	28.514	68.541	2.186	1.00	0.00	C
ATOM	5731	CE1	TYR	A	727	28.168	70.783	3.783	1.00	0.00	C

	ATOM	5732	CE2	TYR	A	727	29.450	68.842	3.165	1.00	0.00	C
	ATOM	5733	CZ	TYR	A	727	29.274	69.959	3.962	1.00	0.00	C
	ATOM	5734	OH	TYR	A	727	30.185	70.230	4.951	1.00	0.00	O
	ATOM	5735	N	LEU	A	728	24.234	69.864	-0.946	1.00	0.00	N
5	ATOM	5736	CA	LEU	A	728	22.971	69.565	-1.608	1.00	0.00	C
	ATOM	5737	C	LEU	A	728	22.621	70.324	-2.881	1.00	0.00	C
	ATOM	5738	O	LEU	A	728	22.860	71.525	-2.999	1.00	0.00	O
	ATOM	5739	CB	LEU	A	728	21.821	69.753	-0.611	1.00	0.00	C
	ATOM	5740	CG	LEU	A	728	21.986	69.104	0.766	1.00	0.00	C
10	ATOM	5741	CD1	LEU	A	728	20.725	69.327	1.599	1.00	0.00	C
	ATOM	5742	CD2	LEU	A	728	22.265	67.623	0.598	1.00	0.00	C
	ATOM	5743	N	PHE	A	729	22.041	69.590	-3.828	1.00	0.00	N
	ATOM	5744	CA	PHE	A	729	21.571	70.146	-5.089	1.00	0.00	C
	ATOM	5745	C	PHE	A	729	20.050	70.000	-4.996	1.00	0.00	C
15	ATOM	5746	O	PHE	A	729	19.521	68.892	-5.082	1.00	0.00	O
	ATOM	5747	CB	PHE	A	729	22.097	69.335	-6.279	1.00	0.00	C
	ATOM	5748	CG	PHE	A	729	21.637	69.848	-7.624	1.00	0.00	C
	ATOM	5749	CD1	PHE	A	729	21.579	68.995	-8.721	1.00	0.00	C
	ATOM	5750	CD2	PHE	A	729	21.283	71.187	-7.797	1.00	0.00	C
20	ATOM	5751	CE1	PHE	A	729	21.173	69.463	-9.974	1.00	0.00	C
	ATOM	5752	CE2	PHE	A	729	20.877	71.666	-9.045	1.00	0.00	C
	ATOM	5753	CZ	PHE	A	729	20.822	70.804	-10.134	1.00	0.00	C
	ATOM	5754	N	LEU	A	730	19.356	71.117	-4.802	1.00	0.00	N
	ATOM	5755	CA	LEU	A	730	17.901	71.115	-4.680	1.00	0.00	C
25	ATOM	5756	C	LEU	A	730	17.326	72.146	-5.636	1.00	0.00	C
	ATOM	5757	O	LEU	A	730	16.852	73.201	-5.215	1.00	0.00	O
	ATOM	5758	CB	LEU	A	730	17.506	71.459	-3.245	1.00	0.00	C
	ATOM	5759	CG	LEU	A	730	17.893	70.418	-2.192	1.00	0.00	C
	ATOM	5760	CD1	LEU	A	730	17.864	71.040	-0.809	1.00	0.00	C
30	ATOM	5761	CD2	LEU	A	730	16.942	69.232	-2.277	1.00	0.00	C
	ATOM	5762	N	PRO	A	731	17.355	71.845	-6.942	1.00	0.00	N
	ATOM	5763	CA	PRO	A	731	16.844	72.754	-7.968	1.00	0.00	C
	ATOM	5764	C	PRO	A	731	15.358	73.063	-7.877	1.00	0.00	C
	ATOM	5765	O	PRO	A	731	14.559	72.233	-7.434	1.00	0.00	O
35	ATOM	5766	CB	PRO	A	731	17.198	72.036	-9.262	1.00	0.00	C
	ATOM	5767	CG	PRO	A	731	17.026	70.593	-8.879	1.00	0.00	C
	ATOM	5768	CD	PRO	A	731	17.699	70.535	-7.528	1.00	0.00	C
	ATOM	5769	N	ASN	A	732	14.998	74.271	-8.297	1.00	0.00	N
	ATOM	5770	CA	ASN	A	732	13.605	74.687	-8.300	1.00	0.00	C
40	ATOM	5771	C	ASN	A	732	13.053	74.332	-9.674	1.00	0.00	C
	ATOM	5772	O	ASN	A	732	12.525	75.182	-10.392	1.00	0.00	O
	ATOM	5773	CB	ASN	A	732	13.493	76.194	-8.034	1.00	0.00	C
	ATOM	5774	CG	ASN	A	732	14.176	77.033	-9.096	1.00	0.00	C
	ATOM	5775	OD1	ASN	A	732	15.263	76.700	-9.563	1.00	0.00	O
45	ATOM	5776	ND2	ASN	A	732	13.544	78.140	-9.473	1.00	0.00	N
	ATOM	5777	N	GLY	A	733	13.204	73.059	-10.035	1.00	0.00	N
	ATOM	5778	CA	GLY	A	733	12.718	72.577	-11.315	1.00	0.00	C
	ATOM	5779	C	GLY	A	733	13.788	72.479	-12.384	1.00	0.00	C
	ATOM	5780	O	GLY	A	733	14.952	72.810	-12.133	1.00	0.00	O
50	ATOM	5781	N	PRO	A	734	13.424	72.017	-13.594	1.00	0.00	N
	ATOM	5782	CA	PRO	A	734	14.363	71.880	-14.710	1.00	0.00	C
	ATOM	5783	C	PRO	A	734	15.038	73.216	-14.995	1.00	0.00	C
	ATOM	5784	O	PRO	A	734	14.477	74.274	-14.709	1.00	0.00	O
	ATOM	5785	CB	PRO	A	734	13.469	71.439	-15.867	1.00	0.00	C
55	ATOM	5786	CG	PRO	A	734	12.373	70.695	-15.187	1.00	0.00	C
	ATOM	5787	CD	PRO	A	734	12.078	71.569	-13.991	1.00	0.00	C
	ATOM	5788	N	ALA	A	735	16.234	73.160	-15.570	1.00	0.00	N
	ATOM	5789	CA	ALA	A	735	16.992	74.365	-15.883	1.00	0.00	C
	ATOM	5790	C	ALA	A	735	16.302	75.227	-16.938	1.00	0.00	C
60	ATOM	5791	O	ALA	A	735	15.535	74.728	-17.759	1.00	0.00	O
	ATOM	5792	CB	ALA	A	735	18.391	73.988	-16.355	1.00	0.00	C

	ATOM	5793	N	SER A 736	16.585	76.526	-16.896	1.00	0.00	N
	ATOM	5794	CA	SER A 736	16.025	77.487	-17.839	1.00	0.00	C
	ATOM	5795	C	SER A 736	17.169	77.998	-18.709	1.00	0.00	C
	ATOM	5796	O	SER A 736	18.277	78.210	-18.222	1.00	0.00	O
5	ATOM	5797	CB	SER A 736	15.392	78.662	-17.090	1.00	0.00	C
	ATOM	5798	OG	SER A 736	14.416	78.216	-16.165	1.00	0.00	O
	ATOM	5799	N	PRO A 737	16.912	78.213	-20.007	1.00	0.00	N
	ATOM	5800	CA	PRO A 737	17.957	78.701	-20.913	1.00	0.00	C
	ATOM	5801	C	PRO A 737	18.540	80.043	-20.481	1.00	0.00	C
10	ATOM	5802	O	PRO A 737	17.818	80.915	-20.001	1.00	0.00	O
	ATOM	5803	CB	PRO A 737	17.231	78.808	-22.255	1.00	0.00	C
	ATOM	5804	CG	PRO A 737	16.131	77.793	-22.141	1.00	0.00	C
	ATOM	5805	CD	PRO A 737	15.647	78.009	-20.731	1.00	0.00	C
	ATOM	5806	N	VAL A 738	19.851	80.203	-20.639	1.00	0.00	N
15	ATOM	5807	CA	VAL A 738	20.496	81.465	-20.297	1.00	0.00	C
	ATOM	5808	C	VAL A 738	20.181	82.434	-21.438	1.00	0.00	C
	ATOM	5809	O	VAL A 738	20.315	82.078	-22.607	1.00	0.00	O
	ATOM	5810	CB	VAL A 738	22.038	81.312	-20.188	1.00	0.00	C
	ATOM	5811	CG1	VAL A 738	22.697	82.689	-20.098	1.00	0.00	C
20	ATOM	5812	CG2	VAL A 738	22.400	80.481	-18.964	1.00	0.00	C
	ATOM	5813	N	GLU A 739	19.742	83.643	-21.100	1.00	0.00	N
	ATOM	5814	CA	GLU A 739	19.429	84.648	-22.113	1.00	0.00	C
	ATOM	5815	C	GLU A 739	20.755	85.126	-22.684	1.00	0.00	C
	ATOM	5816	O	GLU A 739	21.545	85.761	-21.988	1.00	0.00	O
25	ATOM	5817	CB	GLU A 739	18.670	85.818	-21.487	1.00	0.00	C
	ATOM	5818	CG	GLU A 739	17.304	85.436	-20.946	1.00	0.00	C
	ATOM	5819	CD	GLU A 739	16.357	84.965	-22.035	1.00	0.00	C
	ATOM	5820	OE1	GLU A 739	15.224	84.555	-21.701	1.00	0.00	O
	ATOM	5821	OE2	GLU A 739	16.741	85.010	-23.224	1.00	0.00	O
30	ATOM	5822	N	LEU A 740	20.986	84.819	-23.956	1.00	0.00	N
	ATOM	5823	CA	LEU A 740	22.239	85.161	-24.618	1.00	0.00	C
	ATOM	5824	C	LEU A 740	22.318	86.525	-25.288	1.00	0.00	C
	ATOM	5825	O	LEU A 740	23.413	87.052	-25.483	1.00	0.00	O
	ATOM	5826	CB	LEU A 740	22.570	84.091	-25.655	1.00	0.00	C
35	ATOM	5827	CG	LEU A 740	22.540	82.644	-25.163	1.00	0.00	C
	ATOM	5828	CD1	LEU A 740	22.919	81.724	-26.310	1.00	0.00	C
	ATOM	5829	CD2	LEU A 740	23.496	82.471	-23.985	1.00	0.00	C
	ATOM	5830	N	GLY A 741	21.172	87.094	-25.645	1.00	0.00	N
	ATOM	5831.	CA	GLY A 741	21.187	88.379	-26.319	1.00	0.00	C
40	ATOM	5832	C	GLY A 741	21.861	88.201	-27.667	1.00	0.00	C
	ATOM	5833	O	GLY A 741	21.617	87.214	-28.356	1.00	0.00	O
	ATOM	5834	N	GLN A 742	22.708	89.151	-28.048	1.00	0.00	N
	ATOM	5835	CA	GLN A 742	23.427	89.074	-29.317	1.00	0.00	C
	ATOM	5836	C	GLN A 742	24.920	89.094	-28.991	1.00	0.00	C
45	ATOM	5837	O	GLN A 742	25.588	90.116	-29.137	1.00	0.00	O
	ATOM	5838	CB	GLN A 742	23.050	90.261	-30.210	1.00	0.00	C
	ATOM	5839	CG	GLN A 742	21.556	90.328	-30.530	1.00	0.00	C
	ATOM	5840	CD	GLN A 742	21.187	91.496	-31.429	1.00	0.00	C
	ATOM	5841	OE1	GLN A 742	21.650	91.593	-32.568	1.00	0.00	O
50	ATOM	5842	NE2	GLN A 742	20.344	92.389	-30.921	1.00	0.00	N
	ATOM	5843	N	PRO A 743	25.458	87.948	-28.545	1.00	0.00	N
	ATOM	5844	CA	PRO A 743	26.868	87.789	-28.175	1.00	0.00	C
	ATOM	5845	C	PRO A 743	27.887	88.002	-29.289	1.00	0.00	C
	ATOM	5846	O	PRO A 743	27.612	87.745	-30.461	1.00	0.00	O
55	ATOM	5847	CB	PRO A 743	26.912	86.371	-27.616	1.00	0.00	C
	ATOM	5848	CG	PRO A 743	25.904	85.660	-28.464	1.00	0.00	C
	ATOM	5849	CD	PRO A 743	24.758	86.649	-28.496	1.00	0.00	C
	ATOM	5850	N	VAL A 744	29.068	88.474	-28.902	1.00	0.00	N
	ATOM	5851	CA	VAL A 744	30.149	88.707	-29.845	1.00	0.00	C
60	ATOM	5852	C	VAL A 744	30.876	87.386	-30.076	1.00	0.00	C
	ATOM	5853	O	VAL A 744	31.255	86.703	-29.124	1.00	0.00	O

	ATOM	5854	CB	VAL	A	744	31.150	89.748	-29.305	1.00	0.00	C
	ATOM	5855	CG1	VAL	A	744	32.314	89.895	-30.272	1.00	0.00	C
	ATOM	5856	CG2	VAL	A	744	30.448	91.089	-29.109	1.00	0.00	C
	ATOM	5857	N	VAL	A	745	31.055	87.030	-31.343	1.00	0.00	N
5	ATOM	5858	CA	VAL	A	745	31.717	85.785	-31.711	1.00	0.00	C
	ATOM	5859	C	VAL	A	745	33.033	86.036	-32.432	1.00	0.00	C
	ATOM	5860	O	VAL	A	745	33.091	86.832	-33.367	1.00	0.00	O
	ATOM	5861	CB	VAL	A	745	30.822	84.939	-32.641	1.00	0.00	C
	ATOM	5862	CG1	VAL	A	745	31.536	83.652	-33.021	1.00	0.00	C
10	ATOM	5863	CG2	VAL	A	745	29.500	84.642	-31.960	1.00	0.00	C
	ATOM	5864	N	LEU	A	746	34.088	85.350	-31.997	1.00	0.00	N
	ATOM	5865	CA	LEU	A	746	35.400	85.496	-32.617	1.00	0.00	C
	ATOM	5866	C	LEU	A	746	35.813	84.206	-33.313	1.00	0.00	C
	ATOM	5867	O	LEU	A	746	35.915	83.153	-32.682	1.00	0.00	O
15	ATOM	5868	CB	LEU	A	746	36.458	85.861	-31.572	1.00	0.00	C
	ATOM	5869	CG	LEU	A	746	37.909	85.872	-32.079	1.00	0.00	C
	ATOM	5870	CD1	LEU	A	746	38.102	86.971	-33.119	1.00	0.00	C
	ATOM	5871	CD2	LEU	A	746	38.850	86.092	-30.903	1.00	0.00	C
	ATOM	5872	N	VAL	A	747	36.067	84.301	-34.612	1.00	0.00	N
20	ATOM	5873	CA	VAL	A	747	36.468	83.140	-35.394	1.00	0.00	C
	ATOM	5874	C	VAL	A	747	37.912	83.266	-35.857	1.00	0.00	C
	ATOM	5875	O	VAL	A	747	38.277	84.222	-36.544	1.00	0.00	O
	ATOM	5876	CB	VAL	A	747	35.558	82.961	-36.639	1.00	0.00	C
	ATOM	5877	CG1	VAL	A	747	35.974	81.712	-37.415	1.00	0.00	C
25	ATOM	5878	CG2	VAL	A	747	34.100	82.864	-36.207	1.00	0.00	C
	ATOM	5879	N	THR	A	748	38.737	82.304	-35.464	1.00	0.00	N
	ATOM	5880	CA	THR	A	748	40.136	82.295	-35.859	1.00	0.00	C
	ATOM	5881	C	THR	A	748	40.358	81.044	-36.697	1.00	0.00	C
	ATOM	5882	O	THR	A	748	40.121	79.927	-36.232	1.00	0.00	O
30	ATOM	5883	CB	THR	A	748	41.067	82.274	-34.624	1.00	0.00	C
	ATOM	5884	OG1	THR	A	748	40.874	83.475	-33.865	1.00	0.00	O
	ATOM	5885	CG2	THR	A	748	42.532	82.173	-35.054	1.00	0.00	C
	ATOM	5886	N	LYS	A	749	40.802	81.232	-37.935	1.00	0.00	N
	ATOM	5887	CA	LYS	A	749	41.034	80.108	-38.828	1.00	0.00	C
35	ATOM	5888	C	LYS	A	749	42.500	79.968	-39.202	1.00	0.00	C
	ATOM	5889	O	LYS	A	749	43.097	80.875	-39.790	1.00	0.00	O
	ATOM	5890	CB	LYS	A	749	40.192	80.262	-40.096	1.00	0.00	C
	ATOM	5891	CG	LYS	A	749	40.408	79.145	-41.104	1.00	0.00	C
	ATOM	5892	CD	LYS	A	749	39.527	79.315	-42.329	1.00	0.00	C
40	ATOM	5893	CE	LYS	A	749	39.778	78.195	-43.328	1.00	0.00	C
	ATOM	5894	NZ	LYS	A	749	38.938	78.336	-44.547	1.00	0.00	N
	ATOM	5895	N	GLY	A	750	43.072	78.819	-38.861	1.00	0.00	N
	ATOM	5896	CA	GLY	A	750	44.468	78.568	-39.164	1.00	0.00	C
	ATOM	5897	C	GLY	A	750	44.667	77.201	-39.778	1.00	0.00	C
45	ATOM	5898	O	GLY	A	750	43.767	76.356	-39.742	1.00	0.00	O
	ATOM	5899	N	LYS	A	751	45.848	76.984	-40.347	1.00	0.00	N
	ATOM	5900	CA	LYS	A	751	46.173	75.714	-40.979	1.00	0.00	C
	ATOM	5901	C	LYS	A	751	46.322	74.594	-39.953	1.00	0.00	C
	ATOM	5902	O	LYS	A	751	46.006	73.441	-40.238	1.00	0.00	O
50	ATOM	5903	CB	LYS	A	751	47.476	75.840	-41.774	1.00	0.00	C
	ATOM	5904	CG	LYS	A	751	47.397	76.756	-42.993	1.00	0.00	C
	ATOM	5905	CD	LYS	A	751	46.565	76.128	-44.106	1.00	0.00	C
	ATOM	5906	CE	LYS	A	751	46.628	76.955	-45.387	1.00	0.00	C
	ATOM	5907	NZ	LYS	A	751	45.820	76.342	-46.483	1.00	0.00	N
55	ATOM	5908	N	LEU	A	752	46.802	74.940	-38.763	1.00	0.00	N
	ATOM	5909	CA	LEU	A	752	47.011	73.953	-37.709	1.00	0.00	C
	ATOM	5910	C	LEU	A	752	45.951	73.997	-36.615	1.00	0.00	C
	ATOM	5911	O	LEU	A	752	45.630	72.972	-36.010	1.00	0.00	O
	ATOM	5912	CB	LEU	A	752	48.390	74.152	-37.072	1.00	0.00	C
60	ATOM	5913	CG	LEU	A	752	49.622	74.116	-37.983	1.00	0.00	C
	ATOM	5914	CD1	LEU	A	752	50.878	74.287	-37.136	1.00	0.00	C

ATOM	5915	CD2	LEU	A	752	49.669	72.798	-38.749	1.00	0.00	C
ATOM	5916	N	GLU	A	753	45.410	75.182	-36.360	1.00	0.00	N
ATOM	5917	CA	GLU	A	753	44.405	75.341	-35.320	1.00	0.00	C
ATOM	5918	C	GLU	A	753	43.414	76.452	-35.644	1.00	0.00	C
ATOM	5919	O	GLU	A	753	43.802	77.555	-36.033	1.00	0.00	O
ATOM	5920	CB	GLU	A	753	45.086	75.656	-33.984	1.00	0.00	C
ATOM	5921	CG	GLU	A	753	44.131	75.781	-32.801	1.00	0.00	C
ATOM	5922	CD	GLU	A	753	44.827	76.254	-31.534	1.00	0.00	C
ATOM	5923	OE1	GLU	A	753	45.166	77.451	-31.449	1.00	0.00	O
ATOM	5924	OE2	GLU	A	753	45.040	75.425	-30.624	1.00	0.00	O
ATOM	5925	N	SER	A	754	42.132	76.151	-35.483	1.00	0.00	N
ATOM	5926	CA	SER	A	754	41.080	77.127	-35.717	1.00	0.00	C
ATOM	5927	C	SER	A	754	40.201	77.081	-34.481	1.00	0.00	C
ATOM	5928	O	SER	A	754	40.272	76.124	-33.707	1.00	0.00	O
ATOM	5929	CB	SER	A	754	40.258	76.753	-36.951	1.00	0.00	C
ATOM	5930	OG	SER	A	754	41.062	76.784	-38.117	1.00	0.00	O
ATOM	5931	N	SER	A	755	39.378	78.102	-34.282	1.00	0.00	N
ATOM	5932	CA	SER	A	755	38.507	78.109	-33.119	1.00	0.00	C
ATOM	5933	C	SER	A	755	37.377	79.114	-33.231	1.00	0.00	C
ATOM	5934	O	SER	A	755	37.423	80.046	-34.038	1.00	0.00	O
ATOM	5935	CB	SER	A	755	39.317	78.407	-31.852	1.00	0.00	C
ATOM	5936	OG	SER	A	755	39.813	79.734	-31.868	1.00	0.00	O
ATOM	5937	N	VAL	A	756	36.353	78.897	-32.419	1.00	0.00	N
ATOM	5938	CA	VAL	A	756	35.205	79.783	-32.358	1.00	0.00	C
ATOM	5939	C	VAL	A	756	35.018	80.082	-30.877	1.00	0.00	C
ATOM	5940	O	VAL	A	756	34.830	79.167	-30.074	1.00	0.00	O
ATOM	5941	CB	VAL	A	756	33.934	79.114	-32.905	1.00	0.00	C
ATOM	5942	CG1	VAL	A	756	32.733	80.032	-32.691	1.00	0.00	C
ATOM	5943	CG2	VAL	A	756	34.115	78.790	-34.384	1.00	0.00	C
ATOM	5944	N	SER	A	757	35.085	81.361	-30.524	1.00	0.00	N
ATOM	5945	CA	SER	A	757	34.937	81.789	-29.139	1.00	0.00	C
ATOM	5946	C	SER	A	757	33.814	82.810	-29.032	1.00	0.00	C
ATOM	5947	O	SER	A	757	33.704	83.696	-29.873	1.00	0.00	O
ATOM	5948	CB	SER	A	757	36.244	82.416	-28.645	1.00	0.00	C
ATOM	5949	OG	SER	A	757	37.342	81.544	-28.869	1.00	0.00	O
ATOM	5950	N	VAL	A	758	32.982	82.690	-28.004	1.00	0.00	N
ATOM	5951	CA	VAL	A	758	31.878	83.630	-27.828	1.00	0.00	C
ATOM	5952	C	VAL	A	758	31.737	84.071	-26.373	1.00	0.00	C
ATOM	5953	O	VAL	A	758	31.854	83.260	-25.446	1.00	0.00	O
ATOM	5954	CB	VAL	A	758	30.536	83.021	-28.336	1.00	0.00	C
ATOM	5955	CG1	VAL	A	758	30.260	81.691	-27.646	1.00	0.00	C
ATOM	5956	CG2	VAL	A	758	29.393	83.997	-28.097	1.00	0.00	C
ATOM	5957	N	GLY	A	759	31.513	85.369	-26.184	1.00	0.00	N
ATOM	5958	CA	GLY	A	759	31.354	85.915	-24.851	1.00	0.00	C
ATOM	5959	C	GLY	A	759	29.905	85.866	-24.411	1.00	0.00	C
ATOM	5960	O	GLY	A	759	29.104	86.743	-24.744	1.00	0.00	O
ATOM	5961	N	LEU	A	760	29.565	84.824	-23.664	1.00	0.00	N
ATOM	5962	CA	LEU	A	760	28.210	84.643	-23.165	1.00	0.00	C
ATOM	5963	C	LEU	A	760	28.151	85.121	-21.723	1.00	0.00	C
ATOM	5964	O	LEU	A	760	29.184	85.281	-21.072	1.00	0.00	O
ATOM	5965	CB	LEU	A	760	27.832	83.160	-23.225	1.00	0.00	C
ATOM	5966	CG	LEU	A	760	27.973	82.467	-24.582	1.00	0.00	C
ATOM	5967	CD1	LEU	A	760	27.737	80.973	-24.424	1.00	0.00	C
ATOM	5968	CD2	LEU	A	760	26.981	83.068	-25.570	1.00	0.00	C
ATOM	5969	N	PRO	A	761	26.942	85.365	-21.200	1.00	0.00	N
ATOM	5970	CA	PRO	A	761	26.864	85.818	-19.808	1.00	0.00	C
ATOM	5971	C	PRO	A	761	27.431	84.736	-18.883	1.00	0.00	C
ATOM	5972	O	PRO	A	761	26.947	83.601	-18.881	1.00	0.00	O
ATOM	5973	CB	PRO	A	761	25.366	86.030	-19.600	1.00	0.00	C
ATOM	5974	CG	PRO	A	761	24.892	86.421	-20.970	1.00	0.00	C
ATOM	5975	CD	PRO	A	761	25.626	85.446	-21.857	1.00	0.00	C

	ATOM	5976	N	SER A 762	28.466	85.093	-18.126	1.00	0.00		N
	ATOM	5977	CA	SER A 762	29.121	84.188	-17.179	1.00	0.00		C
	ATOM	5978	C	SER A 762	30.094	83.195	-17.805	1.00	0.00		C
	ATOM	5979	O	SER A 762	30.812	82.493	-17.083	1.00	0.00		O
5	ATOM	5980	CB	SER A 762	28.082	83.391	-16.378	1.00	0.00		C
	ATOM	5981	OG	SER A 762	27.233	84.232	-15.625	1.00	0.00		O
	ATOM	5982	N	VAL A 763	30.132	83.124	-19.131	1.00	0.00		N
	ATOM	5983	CA	VAL A 763	31.010	82.157	-19.778	1.00	0.00		C
	ATOM	5984	C	VAL A 763	31.559	82.557	-21.138	1.00	0.00		C
10	ATOM	5985	O	VAL A 763	30.807	82.948	-22.029	1.00	0.00		O
	ATOM	5986	CB	VAL A 763	30.280	80.800	-19.988	1.00	0.00		C
	ATOM	5987	CG1	VAL A 763	31.230	79.784	-20.609	1.00	0.00		C
	ATOM	5988	CG2	VAL A 763	29.729	80.280	-18.669	1.00	0.00		C
	ATOM	5989	N	VAL A 764	32.876	82.476	-21.287	1.00	0.00		N
15	ATOM	5990	CA	VAL A 764	33.487	82.725	-22.581	1.00	0.00		C
	ATOM	5991	C	VAL A 764	33.659	81.279	-23.043	1.00	0.00		C
	ATOM	5992	O	VAL A 764	34.502	80.546	-22.520	1.00	0.00		O
	ATOM	5993	CB	VAL A 764	34.864	83.418	-22.469	1.00	0.00		C
	ATOM	5994	CG1	VAL A 764	35.521	83.497	-23.845	1.00	0.00		C
20	ATOM	5995	CG2	VAL A 764	34.693	84.817	-21.895	1.00	0.00		C
	ATOM	5996	N	HIS A 765	32.813	80.875	-23.986	1.00	0.00		N
	ATOM	5997	CA	HIS A 765	32.786	79.517	-24.528	1.00	0.00		C
	ATOM	5998	C	HIS A 765	33.685	79.425	-25.753	1.00	0.00		C
	ATOM	5999	O	HIS A 765	33.576	80.239	-26.670	1.00	0.00		O
25	ATOM	6000	CB	HIS A 765	31.339	79.163	-24.900	1.00	0.00		C
	ATOM	6001	CG	HIS A 765	31.153	77.752	-25.364	1.00	0.00		C
	ATOM	6002	ND1	HIS A 765	30.622	77.439	-26.597	1.00	0.00		N
	ATOM	6003	CD2	HIS A 765	31.413	76.572	-24.755	1.00	0.00		C
	ATOM	6004	CE1	HIS A 765	30.564	76.126	-26.728	1.00	0.00		C
30	ATOM	6005	NE2	HIS A 765	31.039	75.577	-25.624	1.00	0.00		N
	ATOM	6006	N	GLN A 766	34.562	78.427	-25.778	1.00	0.00		N
	ATOM	6007	CA	GLN A 766	35.487	78.275	-26.892	1.00	0.00		C
	ATOM	6008	C	GLN A 766	35.557	76.852	-27.433	1.00	0.00		C
	ATOM	6009	O	GLN A 766	35.688	75.896	-26.667	1.00	0.00		O
35	ATOM	6010	CB	GLN A 766	36.893	78.697	-26.460	1.00	0.00		C
	ATOM	6011	CG	GLN A 766	36.944	79.974	-25.632	1.00	0.00		C
	ATOM	6012	CD	GLN A 766	38.134	79.995	-24.683	1.00	0.00		C
	ATOM	6013	OE1	GLN A 766	39.280	79.826	-25.105	1.00	0.00		O
	ATOM	6014	NE2	GLN A 766	37.864	80.201	-23.390	1.00	0.00		N
40	ATOM	6015	N	THR A 767	35.468	76.723	-28.754	1.00	0.00		N
	ATOM	6016	CA	THR A 767	35.569	75.425	-29.408	1.00	0.00		C
	ATOM	6017	C	THR A 767	36.832	75.486	-30.262	1.00	0.00		C
	ATOM	6018	O	THR A 767	36.919	76.272	-31.209	1.00	0.00		O
	ATOM	6019	CB	THR A 767	34.344	75.130	-30.299	1.00	0.00		C
45	ATOM	6020	OG1	THR A 767	33.153	75.219	-29.510	1.00	0.00		O
	ATOM	6021	CG2	THR A 767	34.439	73.722	-30.884	1.00	0.00		C
	ATOM	6022	N	ILE A 768	37.815	74.663	-29.912	1.00	0.00		N
	ATOM	6023	CA	ILE A 768	39.093	74.647	-30.614	1.00	0.00		C
	ATOM	6024	C	ILE A 768	39.275	73.386	-31.449	1.00	0.00	.	C
50	ATOM	6025	O	ILE A 768	39.007	72.275	-30.984	1.00	0.00		O
	ATOM	6026	CB	ILE A 768	40.252	74.759	-29.605	1.00	0.00		C
	ATOM	6027	CG1	ILE A 768	39.978	75.917	-28.645	1.00	0.00		C
	ATOM	6028	CG2	ILE A 768	41.566	74.975	-30.337	1.00	0.00		C
	ATOM	6029	CD1	ILE A 768	40.959	76.008	-27.490	1.00	0.00		C
55	ATOM	6030	N	MET A 769	39.736	73.564	-32.683	1.00	0.00		N
	ATOM	6031	CA	MET A 769	39.936	72.442	-33.597	1.00	0.00		C
	ATOM	6032	C	MET A 769	41.382	72.313	-34.052	1.00	0.00		C
	ATOM	6033	O	MET A 769	42.002	73.294	-34.475	1.00	0.00		O
	ATOM	6034	CB	MET A 769	39.028	72.607	-34.817	1.00	0.00		C
60	ATOM	6035	CG	MET A 769	37.546	72.602	-34.478	1.00	0.00		C
	ATOM	6036	SD	MET A 769	36.523	73.314	-35.787	1.00	0.00		S

ATOM	6037	CE	MET A 769	36.440	74.995	-35.226	1.00	0.00		C
ATOM	6038	N	ARG A 770	41.913	71.095	-33.976	1.00	0.00		N
ATOM	6039	CA	ARG A 770	43.288	70.841	-34.377	1.00	0.00		C
ATOM	6040	C	ARG A 770	43.419	69.640	-35.309	1.00	0.00		C
ATOM	6041	O	ARG A 770	44.521	69.142	-35.537	1.00	0.00		O
ATOM	6042	CB	ARG A 770	44.157	70.639	-33.135	1.00	0.00		C
ATOM	6043	CG	ARG A 770	44.138	71.835	-32.200	1.00	0.00		C
ATOM	6044	CD	ARG A 770	44.962	71.604	-30.946	1.00	0.00		C
ATOM	6045	NE	ARG A 770	44.858	72.743	-30.040	1.00	0.00		N
ATOM	6046	CZ	ARG A 770	45.423	72.803	-28.838	1.00	0.00		C
ATOM	6047	NH1	ARG A 770	46.140	71.783	-28.385	1.00	0.00		N
ATOM	6048	NH2	ARG A 770	45.269	73.887	-28.089	1.00	0.00		N
ATOM	6049	N	GLY A 771	42.295	69.176	-35.842	1.00	0.00		N
ATOM	6050	CA	GLY A 771	42.335	68.047	-36.754	1.00	0.00		C
ATOM	6051	C	GLY A 771	41.602	66.809	-36.278	1.00	0.00		C
ATOM	6052	O	GLY A 771	41.377	65.880	-37.057	1.00	0.00		O
ATOM	6053	N	GLY A 772	41.243	66.779	-35.000	1.00	0.00		N
ATOM	6054	CA	GLY A 772	40.528	65.633	-34.469	1.00	0.00		C
ATOM	6055	C	GLY A 772	39.339	66.091	-33.653	1.00	0.00		C
ATOM	6056	O	GLY A 772	38.727	67.118	-33.963	1.00	0.00		O
ATOM	6057	N	ALA A 773	38.999	65.337	-32.613	1.00	0.00		N
ATOM	6058	CA	ALA A 773	37.885	65.720	-31.765	1.00	0.00		C
ATOM	6059	C	ALA A 773	38.207	67.119	-31.245	1.00	0.00		C
ATOM	6060	O	ALA A 773	39.340	67.399	-30.848	1.00	0.00		O
ATOM	6061	CB	ALA A 773	37.740	64.742	-30.603	1.00	0.00		C
ATOM	6062	N	PRO A 774	37.217	68.021	-31.256	1.00	0.00		N
ATOM	6063	CA	PRO A 774	37.457	69.383	-30.774	1.00	0.00		C
ATOM	6064	C	PRO A 774	37.691	69.460	-29.270	1.00	0.00		C
ATOM	6065	O	PRO A 774	37.290	68.571	-28.517	1.00	0.00		O
ATOM	6066	CB	PRO A 774	36.189	70.122	-31.192	1.00	0.00		C
ATOM	6067	CG	PRO A 774	35.139	69.055	-31.102	1.00	0.00		C
ATOM	6068	CD	PRO A 774	35.832	67.863	-31.734	1.00	0.00		C
ATOM	6069	N	GLU A 775	38.362	70.526	-28.847	1.00	0.00		N
ATOM	6070	CA	GLU A 775	38.611	70.764	-27.436	1.00	0.00		C
ATOM	6071	C	GLU A 775	37.663	71.897	-27.075	1.00	0.00		C
ATOM	6072	O	GLU A 775	37.465	72.822	-27.864	1.00	0.00		O
ATOM	6073	CB	GLU A 775	40.057	71.211	-27.191	1.00	0.00		C
ATOM	6074	CG	GLU A 775	40.368	71.487	-25.716	1.00	0.00		C
ATOM	6075	CD	GLU A 775	41.784	71.987	-25.481	1.00	0.00		C
ATOM	6076	OE1	GLU A 775	42.687	71.612	-26.259	1.00	0.00		O
ATOM	6077	OE2	GLU A 775	41.998	72.741	-24.505	1.00	0.00		O
ATOM	6078	N	ILE A 776	37.054	71.814	-25.902	1.00	0.00		N
ATOM	6079	CA	ILE A 776	36.141	72.857	-25.465	1.00	0.00		C
ATOM	6080	C	ILE A 776	36.720	73.487	-24.207	1.00	0.00		C
ATOM	6081	O	ILE A 776	37.174	72.775	-23.308	1.00	0.00		O
ATOM	6082	CB	ILE A 776	34.749	72.292	-25.110	1.00	0.00		C
ATOM	6083	CG1	ILE A 776	34.221	71.414	-26.249	1.00	0.00		C
ATOM	6084	CG2	ILE A 776	33.793	73.440	-24.799	1.00	0.00		C
ATOM	6085	CD1	ILE A 776	34.067	72.127	-27.579	1.00	0.00		C
ATOM	6086	N	ARG A 777	36.720	74.816	-24.153	1.00	0.00		N
ATOM	6087	CA	ARG A 777	37.214	75.529	-22.981	1.00	0.00		C
ATOM	6088	C	ARG A 777	36.171	76.558	-22.568	1.00	0.00		C
ATOM	6089	O	ARG A 777	35.670	77.317	-23.405	1.00	0.00		O
ATOM	6090	CB	ARG A 777	38.536	76.244	-23.281	1.00	0.00		C
ATOM	6091	CG	ARG A 777	39.685	75.323	-23.653	1.00	0.00		C
ATOM	6092	CD	ARG A 777	40.989	76.103	-23.806	1.00	0.00		C
ATOM	6093	NE	ARG A 777	42.059	75.271	-24.350	1.00	0.00		N
ATOM	6094	CZ	ARG A 777	43.229	75.738	-24.779	1.00	0.00		C
ATOM	6095	NH1	ARG A 777	43.487	77.040	-24.726	1.00	0.00		N
ATOM	6096	NH2	ARG A 777	44.139	74.907	-25.274	1.00	0.00		N
ATOM	6097	N	ASN A 778	35.830	76.561	-21.284	1.00	0.00		N

ATOM	6098	CA	ASN	A	778	34.865	77.508	-20.745	1.00	0.00	C
ATOM	6099	C	ASN	A	778	35.516	78.372	-19.680	1.00	0.00	C
ATOM	6100	O	ASN	A	778	35.985	77.855	-18.663	1.00	0.00	O
ATOM	6101	CB	ASN	A	778	33.673	76.796	-20.088	1.00	0.00	C
ATOM	6102	CG	ASN	A	778	32.742	76.138	-21.089	1.00	0.00	C
ATOM	6103	OD1	ASN	A	778	32.721	76.497	-22.267	1.00	0.00	O
ATOM	6104	ND2	ASN	A	778	31.946	75.179	-20.615	1.00	0.00	N
ATOM	6105	N	LEU	A	779	35.561	79.681	-19.911	1.00	0.00	N
ATOM	6106	CA	LEU	A	779	36.104	80.589	-18.907	1.00	0.00	C
ATOM	6107	C	LEU	A	779	34.859	80.990	-18.123	1.00	0.00	C
ATOM	6108	O	LEU	A	779	34.120	81.890	-18.524	1.00	0.00	O
ATOM	6109	CB	LEU	A	779	36.753	81.814	-19.561	1.00	0.00	C
ATOM	6110	CG	LEU	A	779	37.246	82.901	-18.596	1.00	0.00	C
ATOM	6111	CD1	LEU	A	779	38.246	82.320	-17.611	1.00	0.00	C
ATOM	6112	CD2	LEU	A	779	37.878	84.034	-19.390	1.00	0.00	C
ATOM	6113	N	VAL	A	780	34.632	80.300	-17.011	1.00	0.00	N
ATOM	6114	CA	VAL	A	780	33.454	80.512	-16.182	1.00	0.00	C
ATOM	6115	C	VAL	A	780	33.615	81.518	-15.045	1.00	0.00	C
ATOM	6116	O	VAL	A	780	34.436	81.337	-14.152	1.00	0.00	O
ATOM	6117	CB	VAL	A	780	32.974	79.164	-15.584	1.00	0.00	C
ATOM	6118	CG1	VAL	A	780	31.659	79.353	-14.835	1.00	0.00	C
ATOM	6119	CG2	VAL	A	780	32.809	78.139	-16.692	1.00	0.00	C
ATOM	6120	N	ASP	A	781	32.815	82.578	-15.095	1.00	0.00	N
ATOM	6121	CA	ASP	A	781	32.827	83.615	-14.066	1.00	0.00	C
ATOM	6122	C	ASP	A	781	31.375	83.907	-13.735	1.00	0.00	C
ATOM	6123	O	ASP	A	781	30.738	84.758	-14.361	1.00	0.00	O
ATOM	6124	CB	ASP	A	781	33.507	84.886	-14.575	1.00	0.00	C
ATOM	6125	CG	ASP	A	781	33.572	85.976	-13.514	1.00	0.00	C
ATOM	6126	OD1	ASP	A	781	34.037	87.091	-13.835	1.00	0.00	O
ATOM	6127	OD2	ASP	A	781	33.164	85.717	-12.360	1.00	0.00	O
ATOM	6128	N	ILE	A	782	30.856	83.181	-12.755	1.00	0.00	N
ATOM	6129	CA	ILE	A	782	29.472	83.321	-12.339	1.00	0.00	C
ATOM	6130	C	ILE	A	782	29.208	84.669	-11.659	1.00	0.00	C
ATOM	6131	O	ILE	A	782	28.075	84.984	-11.308	1.00	0.00	O
ATOM	6132	CB	ILE	A	782	29.083	82.146	-11.411	1.00	0.00	C
ATOM	6133	CG1	ILE	A	782	27.563	82.008	-11.347	1.00	0.00	C
ATOM	6134	CG2	ILE	A	782	29.677	82.356	-10.018	1.00	0.00	C
ATOM	6135	CD1	ILE	A	782	27.107	80.678	-10.769	1.00	0.00	C
ATOM	6136	N	GLY	A	783	30.263	85.460	-11.483	1.00	0.00	N
ATOM	6137	CA	GLY	A	783	30.123	86.777	-10.877	1.00	0.00	C
ATOM	6138	C	GLY	A	783	29.285	86.839	-9.613	1.00	0.00	C
ATOM	6139	O	GLY	A	783	29.548	86.114	-8.652	1.00	0.00	O
ATOM	6140	N	SER	A	784	28.274	87.703	-9.606	1.00	0.00	N
ATOM	6141	CA	SER	A	784	27.417	87.844	-8.431	1.00	0.00	C
ATOM	6142	C	SER	A	784	26.009	87.272	-8.614	1.00	0.00	C
ATOM	6143	O	SER	A	784	25.078	87.659	-7.904	1.00	0.00	O
ATOM	6144	CB	SER	A	784	27.330	89.317	-8.012	1.00	0.00	C
ATOM	6145	OG	SER	A	784	26.717	90.108	-9.016	1.00	0.00	O
ATOM	6146	N	LEU	A	785	25.856	86.349	-9.560	1.00	0.00	N
ATOM	6147	CA	LEU	A	785	24.562	85.718	-9.814	1.00	0.00	C
ATOM	6148	C	LEU	A	785	24.236	84.743	-8.685	1.00	0.00	C
ATOM	6149	O	LEU	A	785	24.466	83.536	-8.806	1.00	0.00	O
ATOM	6150	CB	LEU	A	785	24.588	84.964	-11.147	1.00	0.00	C
ATOM	6151	CG	LEU	A	785	24.509	85.760	-12.453	1.00	0.00	C
ATOM	6152	CD1	LEU	A	785	25.549	86.864	-12.471	1.00	0.00	C
ATOM	6153	CD2	LEU	A	785	24.720	84.815	-13.625	1.00	0.00	C
ATOM	6154	N	ASP	A	786	23.691	85.267	-7.593	1.00	0.00	N
ATOM	6155	CA	ASP	A	786	23.352	84.439	-6.442	1.00	0.00	C
ATOM	6156	C	ASP	A	786	22.287	83.385	-6.729	1.00	0.00	C
ATOM	6157	O	ASP	A	786	21.405	83.577	-7.569	1.00	0.00	O
ATOM	6158	CB	ASP	A	786	22.885	85.314	-5.276	1.00	0.00	C

ATOM	6159	CG	ASP A 786	23.874	86.407	-4.937	1.00	0.00	C
ATOM	6160	OD1	ASP A 786	25.072	86.098	-4.756	1.00	0.00	O
ATOM	6161	OD2	ASP A 786	23.449	87.578	-4.852	1.00	0.00	O
ATOM	6162	N	ASN A 787	22.382	82.274	-6.006	1.00	0.00	N
ATOM	6163	CA	ASN A 787	21.451	81.162	-6.139	1.00	0.00	C
ATOM	6164	C	ASN A 787	21.260	80.754	-7.588	1.00	0.00	C
ATOM	6165	O	ASN A 787	20.140	80.615	-8.076	1.00	0.00	O
ATOM	6166	CB	ASN A 787	20.113	81.525	-5.496	1.00	0.00	C
ATOM	6167	CG	ASN A 787	20.255	81.836	-4.021	1.00	0.00	C
ATOM	6168	OD1	ASN A 787	20.920	81.103	-3.286	1.00	0.00	O
ATOM	6169	ND2	ASN A 787	19.636	82.923	-3.578	1.00	0.00	N
ATOM	6170	N	THR A 788	22.380	80.553	-8.267	1.00	0.00	N
ATOM	6171	CA	THR A 788	22.365	80.153	-9.661	1.00	0.00	C
ATOM	6172	C	THR A 788	23.397	79.056	-9.891	1.00	0.00	C
ATOM	6173	O	THR A 788	24.492	79.091	-9.328	1.00	0.00	O
ATOM	6174	CB	THR A 788	22.699	81.349	-10.579	1.00	0.00	C
ATOM	6175	OG1	THR A 788	21.741	82.396	-10.368	1.00	0.00	O
ATOM	6176	CG2	THR A 788	22.665	80.929	-12.045	1.00	0.00	C
ATOM	6177	N	GLU A 789	23.027	78.072	-10.699	1.00	0.00	N
ATOM	6178	CA	GLU A 789	23.934	76.988	-11.048	1.00	0.00	C
ATOM	6179	C	GLU A 789	23.926	76.936	-12.568	1.00	0.00	C
ATOM	6180	O	GLU A 789	22.882	76.735	-13.189	1.00	0.00	O
ATOM	6181	CB	GLU A 789	23.466	75.661	-10.435	1.00	0.00	C
ATOM	6182	CG	GLU A 789	23.437	75.702	-8.908	1.00	0.00	C
ATOM	6183	CD	GLU A 789	23.458	74.330	-8.257	1.00	0.00	C
ATOM	6184	OE1	GLU A 789	24.228	73.457	-8.724	1.00	0.00	O
ATOM	6185	OE2	GLU A 789	22.720	74.135	-7.264	1.00	0.00	O
ATOM	6186	N	ILE A 790	25.093	77.156	-13.162	1.00	0.00	N
ATOM	6187	CA	ILE A 790	25.225	77.159	-14.610	1.00	0.00	C
ATOM	6188	C	ILE A 790	25.573	75.773	-15.134	1.00	0.00	C
ATOM	6189	O	ILE A 790	26.529	75.146	-14.677	1.00	0.00	O
ATOM	6190	CB	ILE A 790	26.315	78.145	-15.059	1.00	0.00	C
ATOM	6191	CG1	ILE A 790	26.005	79.542	-14.509	1.00	0.00	C
ATOM	6192	CG2	ILE A 790	26.389	78.174	-16.579	1.00	0.00	C
ATOM	6193	CD1	ILE A 790	27.126	80.549	-14.712	1.00	0.00	C
ATOM	6194	N	VAL A 791	24.794	75.301	-16.099	1.00	0.00	N
ATOM	6195	CA	VAL A 791	25.030	73.988	-16.672	1.00	0.00	C
ATOM	6196	C	VAL A 791	25.280	74.077	-18.171	1.00	0.00	C
ATOM	6197	O	VAL A 791	24.712	74.930	-18.859	1.00	0.00	O
ATOM	6198	CB	VAL A 791	23.820	73.048	-16.423	1.00	0.00	C
ATOM	6199	CG1	VAL A 791	22.588	73.572	-17.159	1.00	0.00	C
ATOM	6200	CG2	VAL A 791	24.152	71.631	-16.875	1.00	0.00	C
ATOM	6201	N	MET A 792	26.161	73.216	-18.665	1.00	0.00	N
ATOM	6202	CA	MET A 792	26.445	73.163	-20.093	1.00	0.00	C
ATOM	6203	C	MET A 792	25.810	71.864	-20.561	1.00	0.00	C
ATOM	6204	O	MET A 792	26.145	70.791	-20.061	1.00	0.00	O
ATOM	6205	CB	MET A 792	27.947	73.136	-20.367	1.00	0.00	C
ATOM	6206	CG	MET A 792	28.275	72.990	-21.849	1.00	0.00	C
ATOM	6207	SD	MET A 792	30.047	73.069	-22.215	1.00	0.00	S
ATOM	6208	CE	MET A 792	30.643	71.606	-21.365	1.00	0.00	C
ATOM	6209	N	ARG A 793	24.891	71.963	-21.515	1.00	0.00	N
ATOM	6210	CA	ARG A 793	24.189	70.787	-22.017	1.00	0.00	C
ATOM	6211	C	ARG A 793	24.423	70.534	-23.500	1.00	0.00	C
ATOM	6212	O	ARG A 793	24.630	71.464	-24.284	1.00	0.00	O
ATOM	6213	CB	ARG A 793	22.681	70.941	-21.755	1.00	0.00	C
ATOM	6214	CG	ARG A 793	21.806	69.771	-22.230	1.00	0.00	C
ATOM	6215	CD	ARG A 793	20.324	70.041	-21.934	1.00	0.00	C
ATOM	6216	NE	ARG A 793	20.062	70.143	-20.499	1.00	0.00	N
ATOM	6217	CZ	ARG A 793	18.972	70.694	-19.971	1.00	0.00	C
ATOM	6218	NH1	ARG A 793	18.030	71.199	-20.759	1.00	0.00	N
ATOM	6219	NH2	ARG A 793	18.826	70.751	-18.652	1.00	0.00	N

	ATOM	6220	N	LEU A 794	24.399	69.257	-23.870	1.00	0.00	N
	ATOM	6221	CA	LEU A 794	24.554	68.837	-25.256	1.00	0.00	C
	ATOM	6222	C	LEU A 794	23.252	68.146	-25.657	1.00	0.00	C
	ATOM	6223	O	LEU A 794	22.764	67.267	-24.940	1.00	0.00	O
5	ATOM	6224	CB	LEU A 794	25.730	67.861	-25.398	1.00	0.00	C
	ATOM	6225	CG	LEU A 794	27.137	68.468	-25.469	1.00	0.00	C
	ATOM	6226	CD1	LEU A 794	28.178	67.453	-25.012	1.00	0.00	C
	ATOM	6227	CD2	LEU A 794	27.413	68.922	-26.894	1.00	0.00	C
	ATOM	6228	N	GLU A 795	22.680	68.557	-26.787	1.00	0.00	N
10	ATOM	6229	CA	GLU A 795	21.439	67.962	-27.276	1.00	0.00	C
	ATOM	6230	C	GLU A 795	21.711	67.242	-28.599	1.00	0.00	C
	ATOM	6231	O	GLU A 795	22.264	67.828	-29.528	1.00	0.00	O
	ATOM	6232	CB	GLU A 795	20.369	69.049	-27.466	1.00	0.00	C
	ATOM	6233	CG	GLU A 795	20.155	69.914	-26.229	1.00	0.00	C
15	ATOM	6234	CD	GLU A 795	19.116	71.010	-26.426	1.00	0.00	C
	ATOM	6235	OE1	GLU A 795	19.075	71.614	-27.520	1.00	0.00	O
	ATOM	6236	OE2	GLU A 795	18.351	71.280	-25.477	1.00	0.00	O
	ATOM	6237	N	THR A 796	21.338	65.965	-28.677	1.00	0.00	N
	ATOM	6238	CA	THR A 796	21.554	65.182	-29.888	1.00	0.00	C
20	ATOM	6239	C	THR A 796	20.334	64.330	-30.225	1.00	0.00	O
	ATOM	6240	O	THR A 796	19.333	64.350	-29.514	1.00	0.00	O
	ATOM	6241	CB	THR A 796	22.746	64.212	-29.744	1.00	0.00	C
	ATOM	6242	OG1	THR A 796	22.350	63.095	-28.933	1.00	0.00	O
	ATOM	6243	CG2	THR A 796	23.940	64.915	-29.102	1.00	0.00	C
25	ATOM	6244	N	HIS A 797	20.444	63.577	-31.316	1.00	0.00	N
	ATOM	6245	CA	HIS A 797	19.377	62.691	-31.771	1.00	0.00	C
	ATOM	6246	C	HIS A 797	19.678	61.252	-31.369	1.00	0.00	C
	ATOM	6247	O	HIS A 797	18.953	60.332	-31.743	1.00	0.00	O
	ATOM	6248	CB	HIS A 797	19.233	62.773	-33.293	1.00	0.00	C
30	ATOM	6249	CG	HIS A 797	18.600	64.043	-33.771	1.00	0.00	C
	ATOM	6250	ND1	HIS A 797	18.581	64.411	-35.100	1.00	0.00	N
	ATOM	6251	CD2	HIS A 797	17.951	65.022	-33.099	1.00	0.00	C
	ATOM	6252	CE1	HIS A 797	17.948	65.564	-35.224	1.00	0.00	C
	ATOM	6253	NE2	HIS A 797	17.556	65.956	-34.025	1.00	0.00	N
35	ATOM	6254	N	ILE A 798	20.751	61.060	-30.607	1.00	0.00	N
	ATOM	6255	CA	ILE A 798	21.133	59.725	-30.159	1.00	0.00	C
	ATOM	6256	C	ILE A 798	19.995	59.105	-29.354	1.00	0.00	C
	ATOM	6257	O	ILE A 798	19.467	59.721	-28.429	1.00	0.00	O
	ATOM	6258	CB	ILE A 798	22.422	59.779	-29.301	1.00	0.00	C
40	ATOM	6259	CG1	ILE A 798	23.571	60.338	-30.151	1.00	0.00	C
	ATOM	6260	CG2	ILE A 798	22.772	58.386	-28.789	1.00	0.00	C
	ATOM	6261	CD1	ILE A 798	24.880	60.542	-29.396	1.00	0.00	C
	ATOM	6262	N	ASP A 799	19.613	57.886	-29.726	1.00	0.00	N
	ATOM	6263	CA	ASP A 799	18.525	57.178	-29.062	1.00	0.00	C
45	ATOM	6264	C	ASP A 799	19.025	56.428	-27.829	1.00	0.00	C
	ATOM	6265	O	ASP A 799	18.975	55.199	-27.773	1.00	0.00	O
	ATOM	6266	CB	ASP A 799	17.881	56.188	-30.037	1.00	0.00	C
	ATOM	6267	CG	ASP A 799	16.554	55.662	-29.537	1.00	0.00	C
	ATOM	6268	OD1	ASP A 799	16.082	54.637	-30.066	1.00	0.00	O
50	ATOM	6269	OD2	ASP A 799	15.979	56.279	-28.618	1.00	0.00	O
	ATOM	6270	N	SER A 800	19.495	57.177	-26.838	1.00	0.00	N
	ATOM	6271	CA	SER A 800	20.023	56.589	-25.612	1.00	0.00	C
	ATOM	6272	C	SER A 800	18.949	56.194	-24.599	1.00	0.00	C
	ATOM	6273	O	SER A 800	19.200	55.378	-23.713	1.00	0.00	O
55	ATOM	6274	CB	SER A 800	21.010	57.563	-24.960	1.00	0.00	C
	ATOM	6275	OG	SER A 800	20.379	58.800	-24.680	1.00	0.00	O
	ATOM	6276	N	GLY A 801	17.758	56.775	-24.721	1.00	0.00	N
	ATOM	6277	CA	GLY A 801	16.685	56.448	-23.798	1.00	0.00	C
	ATOM	6278	C	GLY A 801	16.937	56.952	-22.389	1.00	0.00	C
60	ATOM	6279	O	GLY A 801	17.035	58.157	-22.166	1.00	0.00	O
	ATOM	6280	N	ASP A 802	17.039	56.033	-21.433	1.00	0.00	N

	ATOM	6281	CA	ASP A 802	17.288	56.403	-20.043	1.00	0.00	C
	ATOM	6282	C	ASP A 802	18.671	55.948	-19.575	1.00	0.00	C
	ATOM	6283	O	ASP A 802	18.971	55.981	-18.383	1.00	0.00	O
	ATOM	6284	CB	ASP A 802	16.202	55.809	-19.124	1.00	0.00	C
5	ATOM	6285	CG	ASP A 802	16.090	54.292	-19.230	1.00	0.00	C
	ATOM	6286	OD1	ASP A 802	15.193	53.724	-18.566	1.00	0.00	O
	ATOM	6287	OD2	ASP A 802	16.887	53.663	-19.963	1.00	0.00	O
	ATOM	6288	N	ILE A 803	19.511	55.541	-20.522	1.00	0.00	N
	ATOM	6289	CA	ILE A 803	20.858	55.068	-20.210	1.00	0.00	C
10	ATOM	6290	C	ILE A 803	21.979	56.057	-20.542	1.00	0.00	C
	ATOM	6291	O	ILE A 803	21.925	56.774	-21.539	1.00	0.00	O
	ATOM	6292	CB	ILE A 803	21.162	53.750	-20.968	1.00	0.00	C
	ATOM	6293	CG1	ILE A 803	20.142	52.675	-20.580	1.00	0.00	C
	ATOM	6294	CG2	ILE A 803	22.583	53.278	-20.665	1.00	0.00	C
15	ATOM	6295	CD1	ILE A 803	20.164	52.288	-19.111	1.00	0.00	C
	ATOM	6296	N	PHE A 804	22.995	56.093	-19.686	1.00	0.00	N
	ATOM	6297	CA	PHE A 804	24.162	56.931	-19.915	1.00	0.00	C
	ATOM	6298	C	PHE A 804	25.302	56.379	-19.074	1.00	0.00	C
	ATOM	6299	O	PHE A 804	25.082	55.549	-18.196	1.00	0.00	O
20	ATOM	6300	CB	PHE A 804	23.879	58.421	-19.615	1.00	0.00	C
	ATOM	6301	CG	PHE A 804	23.519	58.728	-18.185	1.00	0.00	C
	ATOM	6302	CD1	PHE A 804	24.453	59.317	-17.330	1.00	0.00	C
	ATOM	6303	CD2	PHE A 804	22.229	58.500	-17.711	1.00	0.00	C
	ATOM	6304	CE1	PHE A 804	24.103	59.682	-16.027	1.00	0.00	C
25	ATOM	6305	CE2	PHE A 804	21.867	58.857	-16.411	1.00	0.00	C
	ATOM	6306	CZ	PHE A 804	22.808	59.452	-15.567	1.00	0.00	C
	ATOM	6307	N	TYR A 805	26.522	56.805	-19.367	1.00	0.00	N
	ATOM	6308	CA	TYR A 805	27.673	56.305	-18.632	1.00	0.00	C
	ATOM	6309	C	TYR A 805	28.508	57.429	-18.048	1.00	0.00	C
30	ATOM	6310	O	TYR A 805	28.648	58.492	-18.654	1.00	0.00	O
	ATOM	6311	CB	TYR A 805	28.549	55.444	-19.548	1.00	0.00	C
	ATOM	6312	CG	TYR A 805	27.851	54.218	-20.108	1.00	0.00	C
	ATOM	6313	CD1	TYR A 805	26.859	54.335	-21.086	1.00	0.00	C
	ATOM	6314	CD2	TYR A 805	28.187	52.939	-19.663	1.00	0.00	C
35	ATOM	6315	CE1	TYR A 805	26.223	53.205	-21.610	1.00	0.00	C
	ATOM	6316	CE2	TYR A 805	27.555	51.802	-20.179	1.00	0.00	C
	ATOM	6317	CZ	TYR A 805	26.578	51.943	-21.150	1.00	0.00	C
	ATOM	6318	OH	TYR A 805	25.964	50.822	-21.667	1.00	0.00	O
	ATOM	6319	N	THR A 806	29.046	57.185	-16.858	1.00	0.00	N
40	ATOM	6320	CA	THR A 806	29.902	58.148	-16.182	1.00	0.00	C
	ATOM	6321	C	THR A 806	31.062	57.341	-15.608	1.00	0.00	C
	ATOM	6322	O	THR A 806	30.941	56.130	-15.415	1.00	0.00	O
	ATOM	6323	CB	THR A 806	29.144	58.880	-15.057	1.00	0.00	C
	ATOM	6324	OG1	THR A 806	28.760	57.945	-14.038	1.00	0.00	O
45	ATOM	6325	CG2	THR A 806	27.890	59.547	-15.620	1.00	0.00	C
	ATOM	6326	N	ASP A 807	32.192	57.989	-15.352	1.00	0.00	N
	ATOM	6327	CA	ASP A 807	33.331	57.260	-14.823	1.00	0.00	C
	ATOM	6328	C	ASP A 807	33.445	57.383	-13.315	1.00	0.00	C
	ATOM	6329	O	ASP A 807	32.869	58.282	-12.702	1.00	0.00	O
50	ATOM	6330	CB	ASP A 807	34.633	57.738	-15.473	1.00	0.00	C
	ATOM	6331	CG	ASP A 807	35.089	59.090	-14.958	1.00	0.00	C
	ATOM	6332	OD1	ASP A 807	36.236	59.180	-14.478	1.00	0.00	O
	ATOM	6333	OD2	ASP A 807	34.313	60.060	-15.038	1.00	0.00	O
	ATOM	6334	N	LEU A 808	34.181	56.449	-12.729	1.00	0.00	N
55	ATOM	6335	CA	LEU A 808	34.417	56.447	-11.299	1.00	0.00	C
	ATOM	6336	C	LEU A 808	35.910	56.649	-11.086	1.00	0.00	C
	ATOM	6337	O	LEU A 808	36.722	55.799	-11.461	1.00	0.00	O
	ATOM	6338	CB	LEU A 808	33.960	55.122	-10.674	1.00	0.00	C
	ATOM	6339	CG	LEU A 808	32.442	54.931	-10.518	1.00	0.00	C
60	ATOM	6340	CD1	LEU A 808	32.120	53.463	-10.264	1.00	0.00	C
	ATOM	6341	CD2	LEU A 808	31.928	55.788	-9.372	1.00	0.00	C

ATOM	6342	N	ASN A 809	36.259	57.804	-10.527	1.00	0.00	N
ATOM	6343	CA	ASN A 809	37.643	58.149	-10.217	1.00	0.00	C
ATOM	6344	C	ASN A 809	38.620	58.045	-11.382	1.00	0.00	C
ATOM	6345	O	ASN A 809	39.803	57.783	-11.170	1.00	0.00	O
ATOM	6346	CB	ASN A 809	38.122	57.266	-9.069	1.00	0.00	C
ATOM	6347	CG	ASN A 809	37.132	57.230	-7.927	1.00	0.00	C
ATOM	6348	OD1	ASN A 809	37.117	58.117	-7.065	1.00	0.00	O
ATOM	6349	ND2	ASN A 809	36.274	56.220	-7.929	1.00	0.00	N
ATOM	6350	N	GLY A 810	38.134	58.262	-12.601	1.00	0.00	N
ATOM	6351	CA	GLY A 810	38.999	58.182	-13.770	1.00	0.00	C
ATOM	6352	C	GLY A 810	39.588	56.797	-13.976	1.00	0.00	C
ATOM	6353	O	GLY A 810	40.618	56.633	-14.645	1.00	0.00	O
ATOM	6354	N	LEU A 811	38.920	55.795	-13.418	1.00	0.00	N
ATOM	6355	CA	LEU A 811	39.381	54.415	-13.499	1.00	0.00	C
ATOM	6356	C	LEU A 811	38.510	53.489	-14.345	1.00	0.00	C
ATOM	6357	O	LEU A 811	39.022	52.647	-15.085	1.00	0.00	O
ATOM	6358	CB	LEU A 811	39.485	53.835	-12.084	1.00	0.00	C
ATOM	6359	CG	LEU A 811	39.808	52.343	-11.975	1.00	0.00	C
ATOM	6360	CD1	LEU A 811	41.209	52.096	-12.523	1.00	0.00	C
ATOM	6361	CD2	LEU A 811	39.700	51.887	-10.524	1.00	0.00	C
ATOM	6362	N	GLN A 812	37.196	53.651	-14.238	1.00	0.00	N
ATOM	6363	CA	GLN A 812	36.261	52.785	-14.947	1.00	0.00	C
ATOM	6364	C	GLN A 812	34.993	53.540	-15.291	1.00	0.00	C
ATOM	6365	O	GLN A 812	34.687	54.550	-14.664	1.00	0.00	O
ATOM	6366	CB	GLN A 812	35.888	51.615	-14.039	1.00	0.00	C
ATOM	6367	CG	GLN A 812	35.288	52.093	-12.701	1.00	0.00	C
ATOM	6368	CD	GLN A 812	34.982	50.963	-11.733	1.00	0.00	C
ATOM	6369	OE1	GLN A 812	33.991	50.248	-11.883	1.00	0.00	O
ATOM	6370	NE2	GLN A 812	35.841	50.795	-10.733	1.00	0.00	N
ATOM	6371	N	PHE A 813	34.258	53.045	-16.284	1.00	0.00	N
ATOM	6372	CA	PHE A 813	32.996	53.658	-16.667	1.00	0.00	C
ATOM	6373	C	PHE A 813	31.874	52.717	-16.261	1.00	0.00	C
ATOM	6374	O	PHE A 813	31.888	51.516	-16.576	1.00	0.00	O
ATOM	6375	CB	PHE A 813	32.953	53.956	-18.170	1.00	0.00	C
ATOM	6376	CG	PHE A 813	33.703	55.199	-18.548	1.00	0.00	C
ATOM	6377	CD1	PHE A 813	35.093	55.204	-18.581	1.00	0.00	C
ATOM	6378	CD2	PHE A 813	33.020	56.388	-18.801	1.00	0.00	C
ATOM	6379	CE1	PHE A 813	35.798	56.374	-18.856	1.00	0.00	C
ATOM	6380	CE2	PHE A 813	33.718	57.563	-19.077	1.00	0.00	C
ATOM	6381	CZ	PHE A 813	35.110	57.552	-19.102	1.00	0.00	C
ATOM	6382	N	ILE A 814	30.912	53.269	-15.536	1.00	0.00	N
ATOM	6383	CA	ILE A 814	29.798	52.490	-15.034	1.00	0.00	C
ATOM	6384	C	ILE A 814	28.485	52.929	-15.679	1.00	0.00	C
ATOM	6385	O	ILE A 814	28.260	54.114	-15.924	1.00	0.00	O
ATOM	6386	CB	ILE A 814	29.721	52.621	-13.491	1.00	0.00	C
ATOM	6387	CG1	ILE A 814	28.672	51.656	-12.926	1.00	0.00	C
ATOM	6388	CG2	ILE A 814	29.409	54.063	-13.101	1.00	0.00	C
ATOM	6389	CD1	ILE A 814	28.665	51.582	-11.396	1.00	0.00	C
ATOM	6390	N	LYS A 815	27.625	51.958	-15.963	1.00	0.00	N
ATOM	6391	CA	LYS A 815	26.341	52.235	-16.592	1.00	0.00	C
ATOM	6392	C	LYS A 815	25.380	52.879	-15.600	1.00	0.00	C
ATOM	6393	O	LYS A 815	25.247	52.420	-14.467	1.00	0.00	O
ATOM	6394	CB	LYS A 815	25.748	50.932	-17.140	1.00	0.00	C
ATOM	6395	CG	LYS A 815	24.388	51.055	-17.816	1.00	0.00	C
ATOM	6396	CD	LYS A 815	23.990	49.703	-18.418	1.00	0.00	C
ATOM	6397	CE	LYS A 815	22.669	49.775	-19.161	1.00	0.00	C
ATOM	6398	NZ	LYS A 815	22.303	48.456	-19.762	1.00	0.00	N
ATOM	6399	N	ARG A 816	24.731	53.956	-16.039	1.00	0.00	N
ATOM	6400	CA	ARG A 816	23.766	54.689	-15.226	1.00	0.00	C
ATOM	6401	C	ARG A 816	22.400	54.588	-15.881	1.00	0.00	C
ATOM	6402	O	ARG A 816	22.302	54.510	-17.102	1.00	0.00	O

ATOM	6403	CB	ARG A 816	24.127	56.177	-15.155	1.00	0.00	C
ATOM	6404	CG	ARG A 816	25.517	56.489	-14.635	1.00	0.00	C
ATOM	6405	CD	ARG A 816	25.690	55.935	-13.240	1.00	0.00	C
ATOM	6406	NE	ARG A 816	26.856	56.490	-12.557	1.00	0.00	N
ATOM	6407	CZ	ARG A 816	27.229	56.123	-11.337	1.00	0.00	C
ATOM	6408	NH1	ARG A 816	26.527	55.204	-10.688	1.00	0.00	N
ATOM	6409	NH2	ARG A 816	28.287	56.679	-10.763	1.00	0.00	N
ATOM	6410	N	ARG A 817	21.349	54.581	-15.072	1.00	0.00	N
ATOM	6411	CA	ARG A 817	19.999	54.549	-15.617	1.00	0.00	C
ATOM	6412	C	ARG A 817	19.210	55.684	-14.982	1.00	0.00	C
ATOM	6413	O	ARG A 817	19.032	55.718	-13.766	1.00	0.00	O
ATOM	6414	CB	ARG A 817	19.293	53.208	-15.336	1.00	0.00	C
ATOM	6415	CG	ARG A 817	17.826	53.206	-15.804	1.00	0.00	C
ATOM	6416	CD	ARG A 817	17.112	51.862	-15.629	1.00	0.00	C
ATOM	6417	NE	ARG A 817	17.629	50.832	-16.525	1.00	0.00	N
ATOM	6418	CZ	ARG A 817	18.366	49.799	-16.133	1.00	0.00	C
ATOM	6419	NH1	ARG A 817	18.677	49.650	-14.852	1.00	0.00	N
ATOM	6420	NH2	ARG A 817	18.794	48.912	-17.022	1.00	0.00	N
ATOM	6421	N	ARG A 818	18.777	56.635	-15.805	1.00	0.00	N
ATOM	6422	CA	ARG A 818	17.983	57.751	-15.315	1.00	0.00	C
ATOM	6423	C	ARG A 818	16.706	57.142	-14.748	1.00	0.00	C
ATOM	6424	O	ARG A 818	16.061	56.327	-15.413	1.00	0.00	O
ATOM	6425	CB	ARG A 818	17.620	58.699	-16.463	1.00	0.00	C
ATOM	6426	CG	ARG A 818	16.915	59.973	-16.007	1.00	0.00	C
ATOM	6427	CD	ARG A 818	16.267	60.712	-17.171	1.00	0.00	C
ATOM	6428	NE	ARG A 818	14.977	60.124	-17.524	1.00	0.00	N
ATOM	6429	CZ	ARG A 818	14.699	59.550	-18.693	1.00	0.00	C
ATOM	6430	NH1	ARG A 818	15.620	59.477	-19.647	1.00	0.00	N
ATOM	6431	NH2	ARG A 818	13.492	59.042	-18.904	1.00	0.00	N
ATOM	6432	N	LEU A 819	16.350	57.523	-13.526	1.00	0.00	N
ATOM	6433	CA	LEU A 819	15.147	57.006	-12.878	1.00	0.00	C
ATOM	6434	C	LEU A 819	14.178	58.149	-12.604	1.00	0.00	C
ATOM	6435	O	LEU A 819	14.429	58.999	-11.749	1.00	0.00	O
ATOM	6436	CB	LEU A 819	15.509	56.304	-11.563	1.00	0.00	C
ATOM	6437	CG	LEU A 819	16.428	55.081	-11.680	1.00	0.00	C
ATOM	6438	CD1	LEU A 819	16.842	54.608	-10.294	1.00	0.00	C
ATOM	6439	CD2	LEU A 819	15.715	53.972	-12.443	1.00	0.00	C
ATOM	6440	N	ASP A 820	13.066	58.169	-13.328	1.00	0.00	N
ATOM	6441	CA	ASP A 820	12.095	59.230	-13.140	1.00	0.00	C
ATOM	6442	C	ASP A 820	11.374	59.101	-11.805	1.00	0.00	C
ATOM	6443	O	ASP A 820	10.713	60.039	-11.359	1.00	0.00	O
ATOM	6444	CB	ASP A 820	11.104	59.254	-14.307	1.00	0.00	C
ATOM	6445	CG	ASP A 820	11.786	59.536	-15.638	1.00	0.00	C
ATOM	6446	OD1	ASP A 820	12.746	60.335	-15.654	1.00	0.00	O
ATOM	6447	OD2	ASP A 820	11.365	58.970	-16.669	1.00	0.00	O
ATOM	6448	N	LYS A 821	11.514	57.949	-11.154	1.00	0.00	N
ATOM	6449	CA	LYS A 821	10.876	57.755	-9.857	1.00	0.00	C
ATOM	6450	C	LYS A 821	11.670	58.516	-8.795	1.00	0.00	C
ATOM	6451	O	LYS A 821	11.237	58.638	-7.652	1.00	0.00	O
ATOM	6452	CB	LYS A 821	10.795	56.266	-9.498	1.00	0.00	C
ATOM	6453	CG	LYS A 821	12.140	55.579	-9.313	1.00	0.00	C
ATOM	6454	CD	LYS A 821	11.969	54.074	-9.144	1.00	0.00	C
ATOM	6455	CE	LYS A 821	13.320	53.372	-9.062	1.00	0.00	C
ATOM	6456	NZ	LYS A 821	13.179	51.886	-9.108	1.00	0.00	N
ATOM	6457	N	LEU A 822	12.833	59.030	-9.185	1.00	0.00	N
ATOM	6458	CA	LEU A 822	13.671	59.803	-8.273	1.00	0.00	C
ATOM	6459	C	LEU A 822	13.718	61.258	-8.737	1.00	0.00	C
ATOM	6460	O	LEU A 822	13.550	61.541	-9.923	1.00	0.00	O
ATOM	6461	CB	LEU A 822	15.091	59.232	-8.234	1.00	0.00	C
ATOM	6462	CG	LEU A 822	15.220	57.794	-7.717	1.00	0.00	C
ATOM	6463	CD1	LEU A 822	16.682	57.360	-7.749	1.00	0.00	C

ATOM	6464	CD2	LEU A 822	14.665	57.713	-6.298	1.00	0.00	C
ATOM	6465	N	PRO A 823	13.941	62.201	-7.807	1.00	0.00	N
ATOM	6466	CA	PRO A 823	14.000	63.615	-8.192	1.00	0.00	C
ATOM	6467	C	PRO A 823	15.217	63.928	-9.066	1.00	0.00	C
ATOM	6468	O	PRO A 823	16.190	63.175	-9.090	1.00	0.00	O
ATOM	6469	CB	PRO A 823	14.024	64.340	-6.848	1.00	0.00	C
ATOM	6470	CG	PRO A 823	14.727	63.362	-5.949	1.00	0.00	C
ATOM	6471	CD	PRO A 823	14.111	62.037	-6.353	1.00	0.00	C
ATOM	6472	N	LEU A 824	15.151	65.046	-9.780	1.00	0.00	N
ATOM	6473	CA	LEU A 824	16.219	65.466	-10.682	1.00	0.00	C
ATOM	6474	C	LEU A 824	17.632	65.338	-10.100	1.00	0.00	C
ATOM	6475	O	LEU A 824	18.508	64.730	-10.719	1.00	0.00	O
ATOM	6476	CB	LEU A 824	15.968	66.914	-11.126	1.00	0.00	C
ATOM	6477	CG	LEU A 824	16.744	67.449	-12.333	1.00	0.00	C
ATOM	6478	CD1	LEU A 824	16.001	68.650	-12.923	1.00	0.00	C
ATOM	6479	CD2	LEU A 824	18.165	67.826	-11.918	1.00	0.00	C
ATOM	6480	N	GLN A 825	17.844	65.902	-8.913	1.00	0.00	N
ATOM	6481	CA	GLN A 825	19.159	65.874	-8.271	1.00	0.00	C
ATOM	6482	C	GLN A 825	19.710	64.472	-8.011	1.00	0.00	C
ATOM	6483	O	GLN A 825	20.928	64.285	-7.907	1.00	0.00	O
ATOM	6484	CB	GLN A 825	19.123	66.651	-6.951	1.00	0.00	C
ATOM	6485	CG	GLN A 825	18.152	66.095	-5.918	1.00	0.00	C
ATOM	6486	CD	GLN A 825	16.753	66.679	-6.042	1.00	0.00	C
ATOM	6487	OE1	GLN A 825	16.340	67.104	-7.118	1.00	0.00	O
ATOM	6488	NE2	GLN A 825	16.013	66.685	-4.939	1.00	0.00	N
ATOM	6489	N	ALA A 826	18.821	63.491	-7.890	1.00	0.00	N
ATOM	6490	CA	ALA A 826	19.244	62.117	-7.640	1.00	0.00	C
ATOM	6491	C	ALA A 826	19.845	61.505	-8.902	1.00	0.00	C
ATOM	6492	O	ALA A 826	20.634	60.558	-8.837	1.00	0.00	O
ATOM	6493	CB	ALA A 826	18.057	61.280	-7.167	1.00	0.00	C
ATOM	6494	N	ASN A 827	19.468	62.048	-10.057	1.00	0.00	N
ATOM	6495	CA	ASN A 827	19.975	61.541	-11.322	1.00	0.00	C
ATOM	6496	C	ASN A 827	21.291	62.199	-11.727	1.00	0.00	C
ATOM	6497	O	ASN A 827	21.815	61.952	-12.811	1.00	0.00	O
ATOM	6498	CB	ASN A 827	18.910	61.696	-12.412	1.00	0.00	C
ATOM	6499	CG	ASN A 827	17.765	60.710	-12.236	1.00	0.00	C
ATOM	6500	OD1	ASN A 827	17.960	59.498	-12.330	1.00	0.00	O
ATOM	6501	ND2	ASN A 827	16.569	61.224	-11.966	1.00	0.00	N
ATOM	6502	N	TYR A 828	21.820	63.046	-10.848	1.00	0.00	N
ATOM	6503	CA	TYR A 828	23.109	63.677	-11.101	1.00	0.00	C
ATOM	6504	C	TYR A 828	24.151	62.746	-10.487	1.00	0.00	C
ATOM	6505	O	TYR A 828	23.953	62.223	-9.388	1.00	0.00	O
ATOM	6506	CB	TYR A 828	23.199	65.058	-10.442	1.00	0.00	C
ATOM	6507	CG	TYR A 828	23.228	66.206	-11.437	1.00	0.00	C
ATOM	6508	CD1	TYR A 828	22.159	66.432	-12.301	1.00	0.00	C
ATOM	6509	CD2	TYR A 828	24.335	67.054	-11.524	1.00	0.00	C
ATOM	6510	CE1	TYR A 828	22.188	67.474	-13.233	1.00	0.00	C
ATOM	6511	CE2	TYR A 828	24.376	68.096	-12.450	1.00	0.00	C
ATOM	6512	CZ	TYR A 828	23.303	68.300	-13.301	1.00	0.00	C
ATOM	6513	OH	TYR A 828	23.352	69.314	-14.230	1.00	0.00	O
ATOM	6514	N	TYR A 829	25.245	62.536	-11.210	1.00	0.00	N
ATOM	6515	CA	TYR A 829	26.328	61.670	-10.757	1.00	0.00	C
ATOM	6516	C	TYR A 829	27.674	62.365	-10.911	1.00	0.00	C
ATOM	6517	O	TYR A 829	27.793	63.362	-11.619	1.00	0.00	O
ATOM	6518	CB	TYR A 829	26.364	60.372	-11.577	1.00	0.00	C
ATOM	6519	CG	TYR A 829	25.201	59.448	-11.321	1.00	0.00	C
ATOM	6520	CD1	TYR A 829	24.039	59.520	-12.090	1.00	0.00	C
ATOM	6521	CD2	TYR A 829	25.245	58.530	-10.273	1.00	0.00	C
ATOM	6522	CE1	TYR A 829	22.939	58.696	-11.814	1.00	0.00	C
ATOM	6523	CE2	TYR A 829	24.160	57.710	-9.986	1.00	0.00	C
ATOM	6524	CZ	TYR A 829	23.011	57.797	-10.755	1.00	0.00	C

ATOM	6525	OH	TYR	A	829	21.935	56.997	-10.440	1.00	0.00	O
ATOM	6526	N	PRO	A	830	28.709	61.844	-10.238	1.00	0.00	N
ATOM	6527	CA	PRO	A	830	30.028	62.468	-10.361	1.00	0.00	C
ATOM	6528	C	PRO	A	830	30.532	62.285	-11.793	1.00	0.00	C
ATOM	6529	O	PRO	A	830	30.314	61.231	-12.396	1.00	0.00	O
ATOM	6530	CB	PRO	A	830	30.890	61.664	-9.383	1.00	0.00	C
ATOM	6531	CG	PRO	A	830	29.910	61.115	-8.395	1.00	0.00	C
ATOM	6532	CD	PRO	A	830	28.725	60.749	-9.254	1.00	0.00	C
ATOM	6533	N	ILE	A	831	31.180	63.307	-12.346	1.00	0.00	N
ATOM	6534	CA	ILE	A	831	31.764	63.192	-13.679	1.00	0.00	C
ATOM	6535	C	ILE	A	831	33.240	63.521	-13.457	1.00	0.00	C
ATOM	6536	O	ILE	A	831	33.726	64.574	-13.872	1.00	0.00	O
ATOM	6537	CB	ILE	A	831	31.182	64.205	-14.703	1.00	0.00	C
ATOM	6538	CG1	ILE	A	831	29.648	64.168	-14.705	1.00	0.00	C
ATOM	6539	CG2	ILE	A	831	31.711	63.868	-16.093	1.00	0.00	C
ATOM	6540	CD1	ILE	A	831	29.037	62.791	-15.017	1.00	0.00	C
ATOM	6541	N	PRO	A	832	33.972	62.621	-12.781	1.00	0.00	N
ATOM	6542	CA	PRO	A	832	35.392	62.873	-12.520	1.00	0.00	C
ATOM	6543	C	PRO	A	832	36.283	63.046	-13.739	1.00	0.00	C
ATOM	6544	O	PRO	A	832	37.271	63.772	-13.671	1.00	0.00	O
ATOM	6545	CB	PRO	A	832	35.805	61.690	-11.633	1.00	0.00	C
ATOM	6546	CG	PRO	A	832	34.813	60.611	-11.986	1.00	0.00	C
ATOM	6547	CD	PRO	A	832	33.525	61.377	-12.131	1.00	0.00	C
ATOM	6548	N	SER	A	833	35.952	62.398	-14.853	1.00	0.00	N
ATOM	6549	CA	SER	A	833	36.780	62.552	-16.046	1.00	0.00	C
ATOM	6550	C	SER	A	833	36.050	62.332	-17.369	1.00	0.00	C
ATOM	6551	O	SER	A	833	36.580	62.673	-18.424	1.00	0.00	O
ATOM	6552	CB	SER	A	833	37.997	61.619	-15.979	1.00	0.00	C
ATOM	6553	OG	SER	A	833	37.652	60.284	-16.291	1.00	0.00	O
ATOM	6554	N	GLY	A	834	34.844	61.769	-17.325	1.00	0.00	N
ATOM	6555	CA	GLY	A	834	34.122	61.546	-18.568	1.00	0.00	C
ATOM	6556	C	GLY	A	834	32.723	60.967	-18.453	1.00	0.00	C
ATOM	6557	O	GLY	A	834	32.341	60.393	-17.431	1.00	0.00	O
ATOM	6558	N	MET	A	835	31.960	61.118	-19.531	1.00	0.00	N
ATOM	6559	CA	MET	A	835	30.591	60.625	-19.589	1.00	0.00	C
ATOM	6560	C	MET	A	835	30.216	60.423	-21.057	1.00	0.00	C
ATOM	6561	O	MET	A	835	30.786	61.067	-21.948	1.00	0.00	O
ATOM	6562	CB	MET	A	835	29.643	61.647	-18.953	1.00	0.00	C
ATOM	6563	CG	MET	A	835	29.514	62.949	-19.743	1.00	0.00	C
ATOM	6564	SD	MET	A	835	28.686	64.278	-18.834	1.00	0.00	S
ATOM	6565	CE	MET	A	835	27.089	63.534	-18.505	1.00	0.00	C
ATOM	6566	N	PHE	A	836	29.271	59.529	-21.317	1.00	0.00	N
ATOM	6567	CA	PHE	A	836	28.848	59.313	-22.692	1.00	0.00	C
ATOM	6568	C	PHE	A	836	27.483	58.672	-22.818	1.00	0.00	C
ATOM	6569	O	PHE	A	836	26.968	58.083	-21.867	1.00	0.00	O
ATOM	6570	CB	PHE	A	836	29.909	58.507	-23.478	1.00	0.00	C
ATOM	6571	CG	PHE	A	836	30.067	57.057	-23.057	1.00	0.00	C
ATOM	6572	CD1	PHE	A	836	29.195	56.074	-23.527	1.00	0.00	C
ATOM	6573	CD2	PHE	A	836	31.134	56.667	-22.247	1.00	0.00	C
ATOM	6574	CE1	PHE	A	836	29.385	54.724	-23.203	1.00	0.00	C
ATOM	6575	CE2	PHE	A	836	31.336	55.316	-21.914	1.00	0.00	C
ATOM	6576	CZ	PHE	A	836	30.459	54.344	-22.395	1.00	0.00	C
ATOM	6577	N	ILE	A	837	26.883	58.847	-23.993	1.00	0.00	N
ATOM	6578	CA	ILE	A	837	25.592	58.257	-24.305	1.00	0.00	C
ATOM	6579	C	ILE	A	837	25.758	57.597	-25.661	1.00	0.00	C
ATOM	6580	O	ILE	A	837	26.611	58.004	-26.458	1.00	0.00	O
ATOM	6581	CB	ILE	A	837	24.464	59.307	-24.406	1.00	0.00	C
ATOM	6582	CG1	ILE	A	837	24.918	60.484	-25.273	1.00	0.00	C
ATOM	6583	CG2	ILE	A	837	24.026	59.733	-23.010	1.00	0.00	C
ATOM	6584	CD1	ILE	A	837	23.768	61.397	-25.714	1.00	0.00	C
ATOM	6585	N	GLU	A	838	24.955	56.577	-25.930	1.00	0.00	N

ATOM	6586	CA	GLU A 838	25.063	55.886	-27.205	1.00	0.00	C
ATOM	6587	C	GLU A 838	23.806	55.099	-27.540	1.00	0.00	C
ATOM	6588	O	GLU A 838	22.977	54.828	-26.673	1.00	0.00	O
ATOM	6589	CB	GLU A 838	26.233	54.898	-27.155	1.00	0.00	C
ATOM	6590	CG	GLU A 838	25.979	53.750	-26.165	1.00	0.00	C
ATOM	6591	CD	GLU A 838	27.094	52.717	-26.117	1.00	0.00	C
ATOM	6592	OE1	GLU A 838	26.943	51.721	-25.377	1.00	0.00	O
ATOM	6593	OE2	GLU A 838	28.116	52.887	-26.810	1.00	0.00	O
ATOM	6594	N	ASP A 839	23.653	54.773	-28.818	1.00	0.00	N
ATOM	6595	CA	ASP A 839	22.558	53.914	-29.240	1.00	0.00	C
ATOM	6596	C	ASP A 839	23.263	52.824	-30.031	1.00	0.00	C
ATOM	6597	O	ASP A 839	24.467	52.624	-29.862	1.00	0.00	O
ATOM	6598	CB	ASP A 839	21.489	54.635	-30.083	1.00	0.00	C
ATOM	6599	CG	ASP A 839	22.055	55.412	-31.255	1.00	0.00	C
ATOM	6600	OD1	ASP A 839	23.085	55.010	-31.835	1.00	0.00	O
ATOM	6601	OD2	ASP A 839	21.428	56.433	-31.608	1.00	0.00	O
ATOM	6602	N	ALA A 840	22.542	52.116	-30.887	1.00	0.00	N
ATOM	6603	CA	ALA A 840	23.160	51.045	-31.649	1.00	0.00	C
ATOM	6604	C	ALA A 840	24.259	51.502	-32.604	1.00	0.00	C
ATOM	6605	O	ALA A 840	25.201	50.751	-32.873	1.00	0.00	O
ATOM	6606	CB	ALA A 840	22.085	50.281	-32.425	1.00	0.00	C
ATOM	6607	N	ASN A 841	24.167	52.737	-33.095	1.00	0.00	N
ATOM	6608	CA	ASN A 841	25.140	53.219	-34.073	1.00	0.00	C
ATOM	6609	C	ASN A 841	26.023	54.406	-33.721	1.00	0.00	C
ATOM	6610	O	ASN A 841	27.131	54.527	-34.249	1.00	0.00	O
ATOM	6611	CB	ASN A 841	24.413	53.556	-35.376	1.00	0.00	C
ATOM	6612	CG	ASN A 841	23.606	52.397	-35.901	1.00	0.00	C
ATOM	6613	OD1	ASN A 841	24.143	51.316	-36.129	1.00	0.00	O
ATOM	6614	ND2	ASN A 841	22.308	52.610	-36.094	1.00	0.00	N
ATOM	6615	N	THR A 842	25.540	55.281	-32.847	1.00	0.00	N
ATOM	6616	CA	THR A 842	26.290	56.485	-32.513	1.00	0.00	C
ATOM	6617	C	THR A 842	26.538	56.707	-31.027	1.00	0.00	C
ATOM	6618	O	THR A 842	25.701	56.384	-30.187	1.00	0.00	O
ATOM	6619	CB	THR A 842	25.551	57.727	-33.069	1.00	0.00	C
ATOM	6620	OG1	THR A 842	25.196	57.494	-34.440	1.00	0.00	O
ATOM	6621	CG2	THR A 842	26.430	58.968	-32.986	1.00	0.00	C
ATOM	6622	N	ARG A 843	27.698	57.272	-30.714	1.00	0.00	N
ATOM	6623	CA	ARG A 843	28.052	57.575	-29.331	1.00	0.00	C
ATOM	6624	C	ARG A 843	28.682	58.955	-29.264	1.00	0.00	C
ATOM	6625	O	ARG A 843	29.399	59.368	-30.175	1.00	0.00	O
ATOM	6626	CB	ARG A 843	29.050	56.557	-28.768	1.00	0.00	C
ATOM	6627	CG	ARG A 843	29.576	56.934	-27.372	1.00	0.00	C
ATOM	6628	CD	ARG A 843	30.763	56.082	-26.918	1.00	0.00	C
ATOM	6629	NE	ARG A 843	30.391	54.703	-26.602	1.00	0.00	N
ATOM	6630	CZ	ARG A 843	31.211	53.823	-26.030	1.00	0.00	C
ATOM	6631	NH1	ARG A 843	32.449	54.178	-25.709	1.00	0.00	N
ATOM	6632	NH2	ARG A 843	30.800	52.586	-25.777	1.00	0.00	N
ATOM	6633	N	LEU A 844	28.397	59.667	-28.182	1.00	0.00	N
ATOM	6634	CA	LEU A 844	28.971	60.986	-27.965	1.00	0.00	C
ATOM	6635	C	LEU A 844	29.623	60.924	-26.595	1.00	0.00	C
ATOM	6636	O	LEU A 844	28.956	60.630	-25.598	1.00	0.00	O
ATOM	6637	CB	LEU A 844	27.894	62.074	-27.968	1.00	0.00	C
ATOM	6638	CG	LEU A 844	28.464	63.490	-27.833	1.00	0.00	C
ATOM	6639	CD1	LEU A 844	29.378	63.776	-29.019	1.00	0.00	C
ATOM	6640	CD2	LEU A 844	27.338	64.513	-27.767	1.00	0.00	C
ATOM	6641	N	THR A 845	30.925	61.187	-26.548	1.00	0.00	N
ATOM	6642	CA	THR A 845	31.660	61.149	-25.289	1.00	0.00	C
ATOM	6643	C	THR A 845	32.245	62.516	-24.960	1.00	0.00	C
ATOM	6644	O	THR A 845	32.869	63.155	-25.804	1.00	0.00	O
ATOM	6645	CB	THR A 845	32.827	60.140	-25.351	1.00	0.00	C
ATOM	6646	OG1	THR A 845	32.325	58.846	-25.710	1.00	0.00	O

	ATOM	6647	CG2	THR	A	845	33.535	60.051	-23.999	1.00	0.00	C
	ATOM	6648	N	LEU	A	846	32.039	62.960	-23.727	1.00	0.00	N
	ATOM	6649	CA	LEU	A	846	32.576	64.238	-23.288	1.00	0.00	C
	ATOM	6650	C	LEU	A	846	33.588	63.923	-22.194	1.00	0.00	C
5	ATOM	6651	O	LEU	A	846	33.230	63.362	-21.158	1.00	0.00	O
	ATOM	6652	CB	LEU	A	846	31.459	65.128	-22.732	1.00	0.00	C
	ATOM	6653	CG	LEU	A	846	31.881	66.487	-22.161	1.00	0.00	C
	ATOM	6654	CD1	LEU	A	846	32.430	67.364	-23.280	1.00	0.00	C
	ATOM	6655	CD2	LEU	A	846	30.689	67.168	-21.488	1.00	0.00	C
10	ATOM	6656	N	LEU	A	847	34.851	64.260	-22.441	1.00	0.00	N
	ATOM	6657	CA	LEU	A	847	35.922	64.023	-21.472	1.00	0.00	C
	ATOM	6658	C	LEU	A	847	36.216	65.349	-20.773	1.00	0.00	C
	ATOM	6659	O	LEU	A	847	36.143	66.410	-21.400	1.00	0.00	O
	ATOM	6660	CB	LEU	A	847	37.192	63.512	-22.172	1.00	0.00	C
15	ATOM	6661	CG	LEU	A	847	37.171	62.165	-22.916	1.00	0.00	C
	ATOM	6662	CD1	LEU	A	847	36.466	61.120	-22.060	1.00	0.00	C
	ATOM	6663	CD2	LEU	A	847	36.471	62.316	-24.262	1.00	0.00	C
	ATOM	6664	N	THR	A	848	36.561	65.290	-19.485	1.00	0.00	N
	ATOM	6665	CA	THR	A	848	36.829	66.506	-18.720	1.00	0.00	C
20	ATOM	6666	C	THR	A	848	38.236	66.591	-18.144	1.00	0.00	C
	ATOM	6667	O	THR	A	848	38.915	65.576	-17.958	1.00	0.00	O
	ATOM	6668	CB	THR	A	848	35.864	66.640	-17.533	1.00	0.00	C
	ATOM	6669	OG1	THR	A	848	36.274	65.750	-16.486	1.00	0.00	O
	ATOM	6670	CG2	THR	A	848	34.448	66.297	-17.956	1.00	0.00	C
25	ATOM	6671	N	GLY	A	849	38.661	67.820	-17.862	1.00	0.00	N
	ATOM	6672	CA	GLY	A	849	39.969	68.042	-17.280	1.00	0.00	C
	ATOM	6673	C	GLY	A	849	39.790	68.414	-15.820	1.00	0.00	C
	ATOM	6674	O	GLY	A	849	40.715	68.890	-15.159	1.00	0.00	O
	ATOM	6675	N	GLN	A	850	38.579	68.197	-15.321	1.00	0.00	N
30	ATOM	6676	CA	GLN	A	850	38.247	68.499	-13.936	1.00	0.00	C
	ATOM	6677	C	GLN	A	850	36.964	67.769	-13.548	1.00	0.00	C
	ATOM	6678	O	GLN	A	850	36.091	67.548	-14.388	1.00	0.00	O
	ATOM	6679	CB	GLN	A	850	38.048	70.010	-13.753	1.00	0.00	C
	ATOM	6680	CG	GLN	A	850	36.894	70.622	-14.571	1.00	0.00	C
35	ATOM	6681	CD	GLN	A	850	37.199	70.719	-16.053	1.00	0.00	C
	ATOM	6682	OE1	GLN	A	850	38.296	71.125	-16.447	1.00	0.00	O
	ATOM	6683	NE2	GLN	A	850	36.221	70.361	-16.890	1.00	0.00	N
	ATOM	6684	N	PRO	A	851	36.838	67.375	-12.269	1.00	0.00	N
	ATOM	6685	CA	PRO	A	851	35.623	66.677	-11.838	1.00	0.00	C
40	ATOM	6686	C	PRO	A	851	34.485	67.674	-11.637	1.00	0.00	C
	ATOM	6687	O	PRO	A	851	34.672	68.731	-11.019	1.00	0.00	O
	ATOM	6688	CB	PRO	A	851	36.049	66.010	-10.532	1.00	0.00	C
	ATOM	6689	CG	PRO	A	851	37.026	67.011	-9.962	1.00	0.00	C
	ATOM	6690	CD	PRO	A	851	37.839	67.418	-11.188	1.00	0.00	C
45	ATOM	6691	N	LEU	A	852	33.318	67.331	-12.173	1.00	0.00	N
	ATOM	6692	CA	LEU	A	852	32.124	68.168	-12.079	1.00	0.00	C
	ATOM	6693	C	LEU	A	852	30.904	67.250	-12.016	1.00	0.00	C
	ATOM	6694	O	LEU	A	852	31.017	66.048	-12.253	1.00	0.00	O
	ATOM	6695	CB	LEU	A	852	32.017	69.077	-13.311	1.00	0.00	C
50	ATOM	6696	CG	LEU	A	852	33.138	70.100	-13.532	1.00	0.00	C
	ATOM	6697	CD1	LEU	A	852	33.032	70.709	-14.928	1.00	0.00	C
	ATOM	6698	CD2	LEU	A	852	33.038	71.189	-12.470	1.00	0.00	C
	ATOM	6699	N	GLY	A	853	29.741	67.810	-11.696	1.00	0.00	N
	ATOM	6700	CA	GLY	A	853	28.540	66.997	-11.626	1.00	0.00	C
55	ATOM	6701	C	GLY	A	853	27.796	66.992	-12.952	1.00	0.00	C
	ATOM	6702	O	GLY	A	853	27.826	67.978	-13.688	1.00	0.00	O
	ATOM	6703	N	GLY	A	854	27.118	65.892	-13.265	1.00	0.00	N
	ATOM	6704	CA	GLY	A	854	26.400	65.839	-14.527	1.00	0.00	C
	ATOM	6705	C	GLY	A	854	25.349	64.756	-14.621	1.00	0.00	C
60	ATOM	6706	O	GLY	A	854	25.146	63.990	-13.678	1.00	0.00	O
	ATOM	6707	N	SER	A	855	24.685	64.682	-15.772	1.00	0.00	N

ATOM	6708	CA	SER A 855	23.637	63.687	-15.979	1.00	0.00	C
ATOM	6709	C	SER A 855	23.168	63.677	-17.427	1.00	0.00	C
ATOM	6710	O	SER A 855	23.727	64.364	-18.284	1.00	0.00	O
ATOM	6711	CB	SER A 855	22.442	64.006	-15.070	1.00	0.00	C
ATOM	6712	OG	SER A 855	21.404	63.046	-15.198	1.00	0.00	O
ATOM	6713	N	SER A 856	22.144	62.866	-17.678	1.00	0.00	N
ATOM	6714	CA	SER A 856	21.494	62.755	-18.980	1.00	0.00	C
ATOM	6715	C	SER A 856	20.027	62.753	-18.564	1.00	0.00	C
ATOM	6716	O	SER A 856	19.470	61.704	-18.224	1.00	0.00	O
ATOM	6717	CB	SER A 856	21.840	61.434	-19.668	1.00	0.00	C
ATOM	6718	OG	SER A 856	21.180	61.335	-20.920	1.00	0.00	O
ATOM	6719	N	LEU A 857	19.408	63.930	-18.569	1.00	0.00	N
ATOM	6720	CA	LEU A 857	18.026	64.045	-18.121	1.00	0.00	C
ATOM	6721	C	LEU A 857	16.964	63.699	-19.155	1.00	0.00	C
ATOM	6722	O	LEU A 857	15.780	63.644	-18.833	1.00	0.00	O
ATOM	6723	CB	LEU A 857	17.787	65.449	-17.558	1.00	0.00	C
ATOM	6724	CG	LEU A 857	18.652	65.779	-16.338	1.00	0.00	C
ATOM	6725	CD1	LEU A 857	18.408	67.212	-15.909	1.00	0.00	C
ATOM	6726	CD2	LEU A 857	18.327	64.815	-15.194	1.00	0.00	C
ATOM	6727	N	ALA A 858	17.392	63.459	-20.386	1.00	0.00	N
ATOM	6728	CA	ALA A 858	16.483	63.097	-21.466	1.00	0.00	C
ATOM	6729	C	ALA A 858	17.293	62.348	-22.510	1.00	0.00	C
ATOM	6730	O	ALA A 858	18.498	62.560	-22.634	1.00	0.00	O
ATOM	6731	CB	ALA A 858	15.849	64.355	-22.085	1.00	0.00	C
ATOM	6732	N	SER A 859	16.633	61.461	-23.247	1.00	0.00	N
ATOM	6733	CA	SER A 859	17.302	60.686	-24.280	1.00	0.00	C
ATOM	6734	C	SER A 859	18.071	61.620	-25.209	1.00	0.00	C
ATOM	6735	O	SER A 859	17.558	62.668	-25.612	1.00	0.00	O
ATOM	6736	CB	SER A 859	16.272	59.882	-25.084	1.00	0.00	C
ATOM	6737	OG	SER A 859	16.896	59.140	-26.117	1.00	0.00	O
ATOM	6738	N	GLY A 860	19.303	61.240	-25.534	1.00	0.00	N
ATOM	6739	CA	GLY A 860	20.131	62.041	-26.420	1.00	0.00	C
ATOM	6740	C	GLY A 860	20.837	63.227	-25.781	1.00	0.00	C
ATOM	6741	O	GLY A 860	21.551	63.969	-26.463	1.00	0.00	O
ATOM	6742	N	GLU A 861	20.660	63.412	-24.479	1.00	0.00	N
ATOM	6743	CA	GLU A 861	21.292	64.538	-23.798	1.00	0.00	C
ATOM	6744	C	GLU A 861	22.442	64.188	-22.863	1.00	0.00	C
ATOM	6745	O	GLU A 861	22.530	63.078	-22.338	1.00	0.00	O
ATOM	6746	CB	GLU A 861	20.261	65.316	-22.978	1.00	0.00	C
ATOM	6747	CG	GLU A 861	19.194	66.041	-23.775	1.00	0.00	C
ATOM	6748	CD	GLU A 861	18.285	66.871	-22.882	1.00	0.00	C
ATOM	6749	OE1	GLU A 861	18.523	66.920	-21.652	1.00	0.00	O
ATOM	6750	OE2	GLU A 861	17.335	67.480	-23.407	1.00	0.00	O
ATOM	6751	N	LEU A 862	23.316	65.168	-22.669	1.00	0.00	N
ATOM	6752	CA	LEU A 862	24.442	65.071	-21.745	1.00	0.00	C
ATOM	6753	C	LEU A 862	24.518	66.469	-21.160	1.00	0.00	C
ATOM	6754	O	LEU A 862	24.315	67.452	-21.873	1.00	0.00	O
ATOM	6755	CB	LEU A 862	25.765	64.773	-22.459	1.00	0.00	C
ATOM	6756	CG	LEU A 862	26.099	63.390	-23.029	1.00	0.00	C
ATOM	6757	CD1	LEU A 862	27.461	63.457	-23.706	1.00	0.00	C
ATOM	6758	CD2	LEU A 862	26.114	62.345	-21.929	1.00	0.00	C
ATOM	6759	N	GLU A 863	24.774	66.575	-19.865	1.00	0.00	N
ATOM	6760	CA	GLU A 863	24.904	67.893	-19.273	1.00	0.00	C
ATOM	6761	C	GLU A 863	25.852	67.818	-18.093	1.00	0.00	C
ATOM	6762	O	GLU A 863	25.915	66.806	-17.392	1.00	0.00	O
ATOM	6763	CB	GLU A 863	23.536	68.452	-18.862	1.00	0.00	C
ATOM	6764	CG	GLU A 863	23.017	68.039	-17.503	1.00	0.00	C
ATOM	6765	CD	GLU A 863	21.689	68.706	-17.187	1.00	0.00	C
ATOM	6766	OE1	GLU A 863	21.534	69.221	-16.061	1.00	0.00	O
ATOM	6767	OE2	GLU A 863	20.796	68.712	-18.066	1.00	0.00	O
ATOM	6768	N	ILE A 864	26.603	68.891	-17.889	1.00	0.00	N

ATOM	6769	CA	ILE A 864	27.575	68.939	-16.811	1.00	0.00	C
ATOM	6770	C	ILE A 864	27.625	70.360	-16.241	1.00	0.00	C
ATOM	6771	O	ILE A 864	27.744	71.335	-16.985	1.00	0.00	O
ATOM	6772	CB	ILE A 864	28.955	68.478	-17.350	1.00	0.00	C
ATOM	6773	CG1	ILE A 864	29.982	68.419	-16.222	1.00	0.00	C
ATOM	6774	CG2	ILE A 864	29.402	69.389	-18.499	1.00	0.00	C
ATOM	6775	CD1	ILE A 864	31.263	67.713	-16.629	1.00	0.00	C
ATOM	6776	N	MET A 865	27.510	70.463	-14.920	1.00	0.00	N
ATOM	6777	CA	MET A 865	27.507	71.750	-14.227	1.00	0.00	C
ATOM	6778	C	MET A 865	28.875	72.436	-14.272	1.00	0.00	C
ATOM	6779	O	MET A 865	29.907	71.792	-14.084	1.00	0.00	O
ATOM	6780	CB	MET A 865	27.080	71.551	-12.770	1.00	0.00	C
ATOM	6781	CG	MET A 865	26.489	72.792	-12.129	1.00	0.00	C
ATOM	6782	SD	MET A 865	24.888	73.177	-12.876	1.00	0.00	S
ATOM	6783	CE	MET A 865	23.854	71.946	-12.056	1.00	0.00	C
ATOM	6784	N	GLN A 866	28.870	73.748	-14.498	1.00	0.00	N
ATOM	6785	CA	GLN A 866	30.106	74.521	-14.590	1.00	0.00	C
ATOM	6786	C	GLN A 866	30.503	75.186	-13.277	1.00	0.00	C
ATOM	6787	O	GLN A 866	31.675	75.190	-12.909	1.00	0.00	O
ATOM	6788	CB	GLN A 866	29.970	75.571	-15.692	1.00	0.00	C
ATOM	6789	CG	GLN A 866	29.633	74.961	-17.037	1.00	0.00	C
ATOM	6790	CD	GLN A 866	30.642	73.906	-17.453	1.00	0.00	C
ATOM	6791	OE1	GLN A 866	31.800	74.217	-17.751	1.00	0.00	O
ATOM	6792	NE2	GLN A 866	30.210	72.647	-17.463	1.00	0.00	N
ATOM	6793	N	ASP A 867	29.526	75.769	-12.591	1.00	0.00	N
ATOM	6794	CA	ASP A 867	29.761	76.404	-11.301	1.00	0.00	C
ATOM	6795	C	ASP A 867	28.409	76.665	-10.664	1.00	0.00	C
ATOM	6796	O	ASP A 867	27.372	76.625	-11.336	1.00	0.00	O
ATOM	6797	CB	ASP A 867	30.531	77.722	-11.453	1.00	0.00	C
ATOM	6798	CG	ASP A 867	31.201	78.165	-10.152	1.00	0.00	C
ATOM	6799	OD1	ASP A 867	31.022	77.490	-9.114	1.00	0.00	O
ATOM	6800	OD2	ASP A 867	31.912	79.188	-10.170	1.00	0.00	O
ATOM	6801	N	ARG A 868	28.425	76.920	-9.363	1.00	0.00	N
ATOM	6802	CA	ARG A 868	27.206	77.181	-8.620	1.00	0.00	C
ATOM	6803	C	ARG A 868	27.513	78.188	-7.522	1.00	0.00	C
ATOM	6804	O	ARG A 868	28.539	78.088	-6.848	1.00	0.00	O
ATOM	6805	CB	ARG A 868	26.679	75.872	-8.022	1.00	0.00	C
ATOM	6806	CG	ARG A 868	27.691	75.120	-7.166	1.00	0.00	C
ATOM	6807	CD	ARG A 868	27.391	73.618	-7.180	1.00	0.00	C
ATOM	6808	NE	ARG A 868	26.037	73.333	-6.722	1.00	0.00	N
ATOM	6809	CZ	ARG A 868	25.715	73.041	-5.466	1.00	0.00	C
ATOM	6810	NH1	ARG A 868	26.655	72.984	-4.530	1.00	0.00	N
ATOM	6811	NH2	ARG A 868	24.448	72.821	-5.142	1.00	0.00	N
ATOM	6812	N	ARG A 869	26.625	79.163	-7.362	1.00	0.00	N
ATOM	6813	CA	ARG A 869	26.776	80.208	-6.352	1.00	0.00	C
ATOM	6814	C	ARG A 869	25.497	80.162	-5.519	1.00	0.00	C
ATOM	6815	O	ARG A 869	24.416	80.477	-6.013	1.00	0.00	O
ATOM	6816	CB	ARG A 869	26.938	81.572	-7.038	1.00	0.00	C
ATOM	6817	CG	ARG A 869	27.263	82.741	-6.107	1.00	0.00	C
ATOM	6818	CD	ARG A 869	27.510	84.029	-6.898	1.00	0.00	C
ATOM	6819	NE	ARG A 869	27.690	85.197	-6.032	1.00	0.00	N
ATOM	6820	CZ	ARG A 869	28.813	85.494	-5.383	1.00	0.00	C
ATOM	6821	NH1	ARG A 869	29.879	84.717	-5.495	1.00	0.00	N
ATOM	6822	NH2	ARG A 869	28.867	86.572	-4.609	1.00	0.00	N
ATOM	6823	N	LEU A 870	25.631	79.749	-4.262	1.00	0.00	N
ATOM	6824	CA	LEU A 870	24.493	79.614	-3.358	1.00	0.00	C
ATOM	6825	C	LEU A 870	24.591	80.533	-2.142	1.00	0.00	C
ATOM	6826	O	LEU A 870	25.586	80.524	-1.417	1.00	0.00	O
ATOM	6827	CB	LEU A 870	24.392	78.157	-2.911	1.00	0.00	C
ATOM	6828	CG	LEU A 870	24.393	77.210	-4.116	1.00	0.00	C
ATOM	6829	CD1	LEU A 870	24.766	75.819	-3.678	1.00	0.00	C

	ATOM	6830	CD2	LEU	A	870	23.029	77.237	-4.795	1.00	0.00	C
	ATOM	6831	N	ALA	A	871	23.537	81.311	-1.916	1.00	0.00	N
	ATOM	6832	CA	ALA	A	871	23.509	82.261	-0.811	1.00	0.00	C
	ATOM	6833	C	ALA	A	871	23.249	81.660	0.567	1.00	0.00	C
5	ATOM	6834	O	ALA	A	871	23.665	82.226	1.578	1.00	0.00	O
	ATOM	6835	CB	ALA	A	871	22.476	83.352	-1.099	1.00	0.00	C
	ATOM	6836	N	SER	A	872	22.573	80.519	0.624	1.00	0.00	N
	ATOM	6837	CA	SER	A	872	22.272	79.924	1.920	1.00	0.00	C
	ATOM	6838	C	SER	A	872	23.032	78.644	2.244	1.00	0.00	C
10	ATOM	6839	O	SER	A	872	23.603	77.996	1.367	1.00	0.00	O
	ATOM	6840	CB	SER	A	872	20.768	79.667	2.037	1.00	0.00	C
	ATOM	6841	OG	SER	A	872	20.331	78.753	1.049	1.00	0.00	O
	ATOM	6842	N	ASP	A	873	23.034	78.304	3.528	1.00	0.00	N
	ATOM	6843	CA	ASP	A	873	23.690	77.105	4.034	1.00	0.00	C
15	ATOM	6844	C	ASP	A	873	22.696	75.950	3.952	1.00	0.00	C
	ATOM	6845	O	ASP	A	873	21.498	76.154	4.143	1.00	0.00	O
	ATOM	6846	CB	ASP	A	873	24.114	77.330	5.487	1.00	0.00	C
	ATOM	6847	CG	ASP	A	873	24.577	76.060	6.161	1.00	0.00	C
	ATOM	6848	OD1	ASP	A	873	23.809	75.503	6.972	1.00	0.00	O
20	ATOM	6849	OD2	ASP	A	873	25.707	75.613	5.869	1.00	0.00	O
	ATOM	6850	N	ASP	A	874	23.183	74.743	3.666	1.00	0.00	N
	ATOM	6851	CA	ASP	A	874	22.299	73.587	3.559	1.00	0.00	C
	ATOM	6852	C	ASP	A	874	22.250	72.685	4.796	1.00	0.00	C
	ATOM	6853	O	ASP	A	874	22.034	71.479	4.695	1.00	0.00	O
25	ATOM	6854	CB	ASP	A	874	22.634	72.763	2.305	1.00	0.00	C
	ATOM	6855	CG	ASP	A	874	24.121	72.503	2.146	1.00	0.00	C
	ATOM	6856	OD1	ASP	A	874	24.902	72.863	3.056	1.00	0.00	O
	ATOM	6857	OD2	ASP	A	874	24.505	71.932	1.101	1.00	0.00	O
	ATOM	6858	N	GLU	A	875	22.458	73.289	5.961	1.00	0.00	N
30	ATOM	6859	CA	GLU	A	875	22.382	72.602	7.247	1.00	0.00	C
	ATOM	6860	C	GLU	A	875	23.153	71.300	7.458	1.00	0.00	C
	ATOM	6861	O	GLU	A	875	22.632	70.374	8.081	1.00	0.00	O
	ATOM	6862	CB	GLU	A	875	20.911	72.352	7.595	1.00	0.00	C
	ATOM	6863	CG	GLU	A	875	20.041	73.600	7.577	1.00	0.00	C
35	ATOM	6864	CD	GLU	A	875	18.589	73.296	7.895	1.00	0.00	C
	ATOM	6865	OE1	GLU	A	875	18.305	72.852	9.026	1.00	0.00	O
	ATOM	6866	OE2	GLU	A	875	17.731	73.494	7.010	1.00	0.00	O
	ATOM	6867	N	ARG	A	876	24.380	71.213	6.959	1.00	0.00	N
	ATOM	6868	CA	ARG	A	876	25.163	70.002	7.180	1.00	0.00	C
40	ATOM	6869	C	ARG	A	876	26.423	70.305	7.993	1.00	0.00	C
	ATOM	6870	O	ARG	A	876	27.317	69.465	8.112	1.00	0.00	O
	ATOM	6871	CB	ARG	A	876	25.518	69.326	5.847	1.00	0.00	C
	ATOM	6872	CG	ARG	A	876	24.314	68.689	5.130	1.00	0.00	C
	ATOM	6873	CD	ARG	A	876	23.608	67.662	6.024	1.00	0.00	C
45	ATOM	6874	NE	ARG	A	876	22.519	66.956	5.346	1.00	0.00	N
	ATOM	6875	CZ	ARG	A	876	21.357	67.507	4.996	1.00	0.00	C
	ATOM	6876	NH1	ARG	A	876	21.111	68.786	5.254	1.00	0.00	N
	ATOM	6877	NH2	ARG	A	876	20.434	66.770	4.388	1.00	0.00	N
	ATOM	6878	N	GLY	A	877	26.486	71.512	8.554	1.00	0.00	N
50	ATOM	6879	CA	GLY	A	877	27.624	71.886	9.376	1.00	0.00	C
	ATOM	6880	C	GLY	A	877	28.606	72.910	8.831	1.00	0.00	C
	ATOM	6881	O	GLY	A	877	29.417	73.448	9.591	1.00	0.00	O
	ATOM	6882	N	LEU	A	878	28.545	73.193	7.534	1.00	0.00	N
	ATOM	6883	CA	LEU	A	878	29.465	74.155	6.931	1.00	0.00	C
55	ATOM	6884	C	LEU	A	878	29.274	75.567	7.490	1.00	0.00	C
	ATOM	6885	O	LEU	A	878	30.242	76.307	7.671	1.00	0.00	O
	ATOM	6886	CB	LEU	A	878	29.302	74.157	5.409	1.00	0.00	C
	ATOM	6887	CG	LEU	A	878	30.187	75.112	4.601	1.00	0.00	C
	ATOM	6888	CD1	LEU	A	878	31.649	74.944	4.999	1.00	0.00	C
60	ATOM	6889	CD2	LEU	A	878	30.003	74.835	3.120	1.00	0.00	C
	ATOM	6890	N	GLY	A	879	28.026	75.938	7.756	1.00	0.00	N

ATOM	6891	CA	GLY A 879	27.758	77.253	8.315	1.00	0.00		C
ATOM	6892	C	GLY A 879	27.829	78.416	7.343	1.00	0.00		C
ATOM	6893	O	GLY A 879	27.911	79.571	7.762	1.00	0.00		O
ATOM	6894	N	GLN A 880	27.807	78.119	6.048	1.00	0.00		N
ATOM	6895	CA	GLN A 880	27.842	79.160	5.029	1.00	0.00		C
ATOM	6896	C	GLN A 880	27.423	78.614	3.672	1.00	0.00		C
ATOM	6897	O	GLN A 880	27.382	77.399	3.457	1.00	0.00		O
ATOM	6898	CB	GLN A 880	29.248	79.772	4.907	1.00	0.00		C
ATOM	6899	CG	GLN A 880	30.364	78.772	4.582	1.00	0.00		C
ATOM	6900	CD	GLN A 880	31.593	79.431	3.966	1.00	0.00		C
ATOM	6901	OE1	GLN A 880	31.621	79.729	2.767	1.00	0.00		O
ATOM	6902	NE2	GLN A 880	32.609	79.671	4.783	1.00	0.00		N
ATOM	6903	N	GLY A 881	27.096	79.527	2.765	1.00	0.00		N
ATOM	6904	CA	GLY A 881	26.729	79.130	1.423	1.00	0.00		C
ATOM	6905	C	GLY A 881	28.013	79.148	0.615	1.00	0.00		C
ATOM	6906	O	GLY A 881	29.107	79.119	1.179	1.00	0.00		O
ATOM	6907	N	VAL A 882	27.887	79.199	-0.703	1.00	0.00		N
ATOM	6908	CA	VAL A 882	29.046	79.234	-1.575	1.00	0.00		C
ATOM	6909	C	VAL A 882	28.999	80.556	-2.328	1.00	0.00		C
ATOM	6910	O	VAL A 882	28.313	80.680	-3.340	1.00	0.00		O
ATOM	6911	CB	VAL A 882	29.018	78.060	-2.570	1.00	0.00		C
ATOM	6912	CG1	VAL A 882	30.230	78.117	-3.480	1.00	0.00		C
ATOM	6913	CG2	VAL A 882	28.988	76.744	-1.804	1.00	0.00		C
ATOM	6914	N	LEU A 883	29.726	81.541	-1.812	1.00	0.00		N
ATOM	6915	CA	LEU A 883	29.761	82.871	-2.410	1.00	0.00		C
ATOM	6916	C	LEU A 883	31.184	83.330	-2.720	1.00	0.00		C
ATOM	6917	O	LEU A 883	31.421	84.517	-2.942	1.00	0.00		O
ATOM	6918	CB	LEU A 883	29.093	83.874	-1.461	1.00	0.00		C
ATOM	6919	CG	LEU A 883	27.586	83.722	-1.219	1.00	0.00		C
ATOM	6920	CD1	LEU A 883	27.162	84.533	-0.003	1.00	0.00		C
ATOM	6921	CD2	LEU A 883	26.832	84.189	-2.448	1.00	0.00		C
ATOM	6922	N	ASP A 884	32.125	82.391	-2.747	1.00	0.00		N
ATOM	6923	CA	ASP A 884	33.521	82.714	-3.019	1.00	0.00		C
ATOM	6924	C	ASP A 884	33.993	82.266	-4.398	1.00	0.00		C
ATOM	6925	O	ASP A 884	35.167	81.949	-4.594	1.00	0.00		O
ATOM	6926	CB	ASP A 884	34.422	82.106	-1.938	1.00	0.00		C
ATOM	6927	CG	ASP A 884	34.181	80.621	-1.738	1.00	0.00		C
ATOM	6928	OD1	ASP A 884	34.836	80.039	-0.847	1.00	0.00		O
ATOM	6929	OD2	ASP A 884	33.344	80.037	-2.465	1.00	0.00		O
ATOM	6930	N	ASN A 885	33.070	82.256	-5.353	1.00	0.00		N
ATOM	6931	CA	ASN A 885	33.373	81.862	-6.723	1.00	0.00		C
ATOM	6932	C	ASN A 885	34.459	82.741	-7.318	1.00	0.00		C
ATOM	6933	O	ASN A 885	34.588	83.913	-6.966	1.00	0.00		O
ATOM	6934	CB	ASN A 885	32.121	81.990	-7.586	1.00	0.00		C
ATOM	6935	CG	ASN A 885	30.950	81.227	-7.019	1.00	0.00		C
ATOM	6936	OD1	ASN A 885	30.705	80.077	-7.385	1.00	0.00		O
ATOM	6937	ND2	ASN A 885	30.230	81.856	-6.098	1.00	0.00		N
ATOM	6938	N	LYS A 886	35.231	82.165	-8.230	1.00	0.00		N
ATOM	6939	CA	LYS A 886	36.289	82.892	-8.910	1.00	0.00		C
ATOM	6940	C	LYS A 886	36.399	82.306	-10.310	1.00	0.00		C
ATOM	6941	O	LYS A 886	36.049	81.146	-10.534	1.00	0.00		O
ATOM	6942	CB	LYS A 886	37.614	82.747	-8.152	1.00	0.00		C
ATOM	6943	CG	LYS A 886	38.104	81.318	-8.014	1.00	0.00		C
ATOM	6944	CD	LYS A 886	39.238	81.206	-7.001	1.00	0.00		C
ATOM	6945	CE	LYS A 886	40.440	82.042	-7.405	1.00	0.00		C
ATOM	6946	NZ	LYS A 886	41.572	81.858	-6.461	1.00	0.00		N
ATOM	6947	N	PRO A 887	36.871	83.104	-11.279	1.00	0.00		N
ATOM	6948	CA	PRO A 887	37.002	82.608	-12.651	1.00	0.00		C
ATOM	6949	C	PRO A 887	37.793	81.304	-12.741	1.00	0.00		C
ATOM	6950	O	PRO A 887	38.850	81.161	-12.129	1.00	0.00		O
ATOM	6951	CB	PRO A 887	37.704	83.761	-13.366	1.00	0.00		C

	ATOM	6952	CG	PRO A 887	37.185	84.967	-12.627	1.00	0.00	C
	ATOM	6953	CD	PRO A 887	37.259	84.524	-11.189	1.00	0.00	C
	ATOM	6954	N	VAL A 888	37.260	80.350	-13.496	1.00	0.00	N
	ATOM	6955	CA	VAL A 888	37.929	79.073	-13.688	1.00	0.00	C
5	ATOM	6956	C	VAL A 888	37.830	78.679	-15.156	1.00	0.00	C
	ATOM	6957	O	VAL A 888	36.814	78.933	-15.811	1.00	0.00	O
	ATOM	6958	CB	VAL A 888	37.307	77.955	-12.803	1.00	0.00	C
	ATOM	6959	CG1	VAL A 888	35.799	77.878	-13.020	1.00	0.00	C
	ATOM	6960	CG2	VAL A 888	37.964	76.609	-13.122	1.00	0.00	C
10	ATOM	6961	N	LEU A 889	38.897	78.081	-15.675	1.00	0.00	N
	ATOM	6962	CA	LEU A 889	38.914	77.640	-17.061	1.00	0.00	C
	ATOM	6963	C	LEU A 889	38.709	76.131	-17.117	1.00	0.00	C
	ATOM	6964	O	LEU A 889	39.626	75.368	-16.817	1.00	0.00	O
	ATOM	6965	CB	LEU A 889	40.248	77.984	-17.734	1.00	0.00	C
15	ATOM	6966	CG	LEU A 889	40.306	77.575	-19.215	1.00	0.00	C
	ATOM	6967	CD1	LEU A 889	39.375	78.476	-20.023	1.00	0.00	C
	ATOM	6968	CD2	LEU A 889	41.734	77.677	-19.740	1.00	0.00	C
	ATOM	6969	N	HIS A 890	37.502	75.708	-17.480	1.00	0.00	N
	ATOM	6970	CA	HIS A 890	37.196	74.285	-17.599	1.00	0.00	C
20	ATOM	6971	C	HIS A 890	37.584	73.830	-18.993	1.00	0.00	C
	ATOM	6972	O	HIS A 890	37.375	74.562	-19.959	1.00	0.00	O
	ATOM	6973	CB	HIS A 890	35.700	74.019	-17.410	1.00	0.00	C
	ATOM	6974	CG	HIS A 890	35.227	74.182	-16.001	1.00	0.00	C
	ATOM	6975	ND1	HIS A 890	35.981	73.797	-14.914	1.00	0.00	N
25	ATOM	6976	CD2	HIS A 890	34.057	74.645	-15.503	1.00	0.00	C
	ATOM	6977	CE1	HIS A 890	35.295	74.016	-13.806	1.00	0.00	C
	ATOM	6978	NE2	HIS A 890	34.124	74.530	-14.136	1.00	0.00	N
	ATOM	6979	N	ILE A 891	38.134	72.625	-19.107	1.00	0.00	N
	ATOM	6980	CA	ILE A 891	38.530	72.110	-20.412	1.00	0.00	C
30	ATOM	6981	C	ILE A 891	37.913	70.741	-20.684	1.00	0.00	C
	ATOM	6982	O	ILE A 891	37.681	69.959	-19.760	1.00	0.00	O
	ATOM	6983	CB	ILE A 891	40.067	72.025	-20.537	1.00	0.00	C
	ATOM	6984	CG1	ILE A 891	40.632	71.016	-19.531	1.00	0.00	C
	ATOM	6985	CG2	ILE A 891	40.677	73.405	-20.283	1.00	0.00	C
35	ATOM	6986	CD1	ILE A 891	42.125	70.735	-19.727	1.00	0.00	C
	ATOM	6987	N	TYR A 892	37.645	70.466	-21.957	1.00	0.00	N
	ATOM	6988	CA	TYR A 892	37.035	69.203	-22.370	1.00	0.00	C
	ATOM	6989	C	TYR A 892	37.446	68.804	-23.778	1.00	0.00	C
	ATOM	6990	O	TYR A 892	38.069	69.572	-24.503	1.00	0.00	O
40	ATOM	6991	CB	TYR A 892	35.500	69.316	-22.407	1.00	0.00	C
	ATOM	6992	CG	TYR A 892	34.841	70.000	-21.240	1.00	0.00	C
	ATOM	6993	CD1	TYR A 892	34.813	71.395	-21.139	1.00	0.00	C
	ATOM	6994	CD2	TYR A 892	34.237	69.252	-20.233	1.00	0.00	C
	ATOM	6995	CE1	TYR A 892	34.194	72.024	-20.054	1.00	0.00	C
45	ATOM	6996	CE2	TYR A 892	33.623	69.863	-19.152	1.00	0.00	C
	ATOM	6997	CZ	TYR A 892	33.602	71.246	-19.064	1.00	0.00	C
	ATOM	6998	OH	TYR A 892	32.990	71.836	-17.984	1.00	0.00	O
	ATOM	6999	N	ARG A 893	37.080	67.578	-24.148	1.00	0.00	N
	ATOM	7000	CA	ARG A 893	37.275	67.067	-25.504	1.00	0.00	C
50	ATOM	7001	C	ARG A 893	35.900	66.469	-25.808	1.00	0.00	C
	ATOM	7002	O	ARG A 893	35.312	65.803	-24.952	1.00	0.00	O
	ATOM	7003	CB	ARG A 893	38.352	65.975	-25.588	1.00	0.00	C
	ATOM	7004	CG	ARG A 893	39.799	66.470	-25.492	1.00	0.00	C
	ATOM	7005	CD	ARG A 893	40.146	67.531	-26.548	1.00	0.00	C
55	ATOM	7006	NE	ARG A 893	40.180	67.018	-27.918	1.00	0.00	N
	ATOM	7007	CZ	ARG A 893	41.096	66.179	-28.394	1.00	0.00	C
	ATOM	7008	NH1	ARG A 893	42.078	65.738	-27.615	1.00	0.00	N
	ATOM	7009	NH2	ARG A 893	41.039	65.788	-29.660	1.00	0.00	N
	ATOM	7010	N	LEU A 894	35.373	66.738	-27.000	1.00	0.00	N
60	ATOM	7011	CA	LEU A 894	34.063	66.223	-27.388	1.00	0.00	C
	ATOM	7012	C	LEU A 894	34.253	65.245	-28.541	1.00	0.00	C

	ATOM	7013	O	LEU	A	894	34.640	65.633	-29.643	1.00	0.00	O
	ATOM	7014	CB	LEU	A	894	33.136	67.372	-27.810	1.00	0.00	C
	ATOM	7015	CG	LEU	A	894	31.687	66.956	-28.108	1.00	0.00	C
	ATOM	7016	CD1	LEU	A	894	31.055	66.396	-26.844	1.00	0.00	C
5	ATOM	7017	CD2	LEU	A	894	30.880	68.141	-28.613	1.00	0.00	C
	ATOM	7018	N	VAL	A	895	33.975	63.972	-28.276	1.00	0.00	N
	ATOM	7019	CA	VAL	A	895	34.163	62.927	-29.272	1.00	0.00	C
	ATOM	7020	C	VAL	A	895	32.881	62.283	-29.788	1.00	0.00	C
	ATOM	7021	O	VAL	A	895	32.201	61.573	-29.048	1.00	0.00	O
10	ATOM	7022	CB	VAL	A	895	35.044	61.788	-28.708	1.00	0.00	C
	ATOM	7023	CG1	VAL	A	895	35.391	60.801	-29.817	1.00	0.00	C
	ATOM	7024	CG2	VAL	A	895	36.300	62.361	-28.070	1.00	0.00	C
	ATOM	7025	N	LEU	A	896	32.563	62.530	-31.056	1.00	0.00	N
	ATOM	7026	CA	LEU	A	896	31.395	61.920	-31.692	1.00	0.00	C
15	ATOM	7027	C	LEU	A	896	31.964	60.752	-32.498	1.00	0.00	C
	ATOM	7028	O	LEU	A	896	32.930	60.928	-33.243	1.00	0.00	O
	ATOM	7029	CB	LEU	A	896	30.695	62.905	-32.636	1.00	0.00	C
	ATOM	7030	CG	LEU	A	896	29.534	62.309	-33.447	1.00	0.00	C
	ATOM	7031	CD1	LEU	A	896	28.388	61.935	-32.515	1.00	0.00	C
20	ATOM	7032	CD2	LEU	A	896	29.058	63.317	-34.491	1.00	0.00	C
	ATOM	7033	N	GLU	A	897	31.380	59.567	-32.343	1.00	0.00	N
	ATOM	7034	CA	GLU	A	897	31.878	58.384	-33.044	1.00	0.00	C
	ATOM	7035	C	GLU	A	897	30.786	57.411	-33.449	1.00	0.00	C
	ATOM	7036	O	GLU	A	897	29.726	57.362	-32.830	1.00	0.00	O
25	ATOM	7037	CB	GLU	A	897	32.833	57.596	-32.148	1.00	0.00	C
	ATOM	7038	CG	GLU	A	897	34.008	58.349	-31.593	1.00	0.00	C
	ATOM	7039	CD	GLU	A	897	34.773	57.507	-30.587	1.00	0.00	C
	ATOM	7040	OE1	GLU	A	897	34.193	57.167	-29.534	1.00	0.00	O
	ATOM	7041	OE2	GLU	A	897	35.944	57.179	-30.855	1.00	0.00	O
30	ATOM	7042	N	LYS	A	898	31.070	56.622	-34.482	1.00	0.00	N
	ATOM	7043	CA	LYS	A	898	30.151	55.585	-34.927	1.00	0.00	C
	ATOM	7044	C	LYS	A	898	30.618	54.362	-34.132	1.00	0.00	C
	ATOM	7045	O	LYS	A	898	31.815	54.084	-34.066	1.00	0.00	O
	ATOM	7046	CB	LYS	A	898	30.302	55.323	-36.428	1.00	0.00	C
35	ATOM	7047	CG	LYS	A	898	29.917	56.500	-37.319	1.00	0.00	C
	ATOM	7048	CD	LYS	A	898	28.496	56.984	-37.035	1.00	0.00	C
	ATOM	7049	CE	LYS	A	898	27.471	55.865	-37.182	1.00	0.00	C
	ATOM	7050	NZ	LYS	A	898	26.095	56.347	-36.886	1.00	0.00	N
	ATOM	7051	N	VAL	A	899	29.688	53.644	-33.517	1.00	0.00	N
40	ATOM	7052	CA	VAL	A	899	30.057	52.484	-32.717	1.00	0.00	C
	ATOM	7053	C	VAL	A	899	29.325	51.202	-33.115	1.00	0.00	C
	ATOM	7054	O	VAL	A	899	29.343	50.221	-32.375	1.00	0.00	O
	ATOM	7055	CB	VAL	A	899	29.794	52.759	-31.217	1.00	0.00	C
	ATOM	7056	CG1	VAL	A	899	30.736	53.847	-30.716	1.00	0.00	C
45	ATOM	7057	CG2	VAL	A	899	28.342	53.188	-31.013	1.00	0.00	C
	ATOM	7058	N	ASN	A	900	28.691	51.204	-34.283	1.00	0.00	N
	ATOM	7059	CA	ASN	A	900	27.955	50.024	-34.728	1.00	0.00	C
	ATOM	7060	C	ASN	A	900	28.853	48.816	-34.983	1.00	0.00	C
	ATOM	7061	O	ASN	A	900	28.384	47.679	-34.962	1.00	0.00	O
50	ATOM	7062	CB	ASN	A	900	27.146	50.342	-35.993	1.00	0.00	C
	ATOM	7063	CG	ASN	A	900	27.997	50.926	-37.095	1.00	0.00	C
	ATOM	7064	OD1	ASN	A	900	28.598	51.988	-36.931	1.00	0.00	O
	ATOM	7065	ND2	ASN	A	900	28.056	50.235	-38.230	1.00	0.00	N
	ATOM	7066	N	ASN	A	901	30.138	49.052	-35.225	1.00	0.00	N
55	ATOM	7067	CA	ASN	A	901	31.063	47.951	-35.480	1.00	0.00	C
	ATOM	7068	C	ASN	A	901	31.850	47.538	-34.244	1.00	0.00	C
	ATOM	7069	O	ASN	A	901	32.622	46.583	-34.290	1.00	0.00	O
	ATOM	7070	CB	ASN	A	901	32.051	48.318	-36.588	1.00	0.00	C
	ATOM	7071	CG	ASN	A	901	31.402	48.373	-37.949	1.00	0.00	C
60	ATOM	7072	OD1	ASN	A	901	30.636	47.484	-38.316	1.00	0.00	O
	ATOM	7073	ND2	ASN	A	901	31.713	49.415	-38.714	1.00	0.00	N

	ATOM	7074	N	CYS A 902	31.657	48.253	-33.143	1.00	0.00	N
	ATOM	7075	CA	CYS A 902	32.378	47.943	-31.915	1.00	0.00	C
	ATOM	7076	C	CYS A 902	31.804	46.754	-31.161	1.00	0.00	C
	ATOM	7077	O	CYS A 902	30.588	46.583	-31.080	1.00	0.00	O
5	ATOM	7078	CB	CYS A 902	32.371	49.139	-30.965	1.00	0.00	C
	ATOM	7079	SG	CYS A 902	33.115	50.688	-31.564	1.00	0.00	S
	ATOM	7080	N	VAL A 903	32.687	45.939	-30.599	1.00	0.00	N
	ATOM	7081	CA	VAL A 903	32.261	44.793	-29.808	1.00	0.00	C
	ATOM	7082	C	VAL A 903	31.992	45.343	-28.411	1.00	0.00	C
10	ATOM	7083	O	VAL A 903	32.920	45.631	-27.656	1.00	0.00	O
	ATOM	7084	CB	VAL A 903	33.361	43.721	-29.734	1.00	0.00	C
	ATOM	7085	CG1	VAL A 903	32.925	42.593	-28.805	1.00	0.00	C
	ATOM	7086	CG2	VAL A 903	33.649	43.181	-31.126	1.00	0.00	C
	ATOM	7087	N	ARG A 904	30.718	45.506	-28.079	1.00	0.00	N
15	ATOM	7088	CA	ARG A 904	30.335	46.051	-26.784	1.00	0.00	C
	ATOM	7089	C	ARG A 904	29.775	45.005	-25.831	1.00	0.00	C
	ATOM	7090	O	ARG A 904	29.446	43.890	-26.239	1.00	0.00	O
	ATOM	7091	CB	ARG A 904	29.306	47.169	-26.986	1.00	0.00	C
	ATOM	7092	CG	ARG A 904	29.892	48.416	-27.629	1.00	0.00	C
20	ATOM	7093	CD	ARG A 904	28.821	49.447	-27.952	1.00	0.00	C
	ATOM	7094	NE	ARG A 904	28.025	49.073	-29.118	1.00	0.00	N
	ATOM	7095	CZ	ARG A 904	27.072	49.838	-29.645	1.00	0.00	C
	ATOM	7096	NH1	ARG A 904	26.796	51.019	-29.106	1.00	0.00	N
	ATOM	7097	NH2	ARG A 904	26.401	49.428	-30.714	1.00	0.00	N
25	ATOM	7098	N	PRO A 905	29.678	45.350	-24.537	1.00	0.00	N
	ATOM	7099	CA	PRO A 905	29.145	44.423	-23.535	1.00	0.00	C
	ATOM	7100	C	PRO A 905	27.669	44.179	-23.815	1.00	0.00	C
	ATOM	7101	O	PRO A 905	27.011	45.009	-24.450	1.00	0.00	O
	ATOM	7102	CB	PRO A 905	29.353	45.172	-22.223	1.00	0.00	C
30	ATOM	7103	CG	PRO A 905	30.529	46.057	-22.510	1.00	0.00	C
	ATOM	7104	CD	PRO A 905	30.220	46.559	-23.891	1.00	0.00	C
	ATOM	7105	N	SER A 906	27.148	43.049	-23.344	1.00	0.00	N
	ATOM	7106	CA	SER A 906	25.740	42.738	-23.550	1.00	0.00	C
	ATOM	7107	C	SER A 906	24.908	43.772	-22.807	1.00	0.00	C
35	ATOM	7108	O	SER A 906	25.427	44.530	-21.985	1.00	0.00	O
	ATOM	7109	CB	SER A 906	25.399	41.348	-23.014	1.00	0.00	C
	ATOM	7110	OG	SER A 906	25.229	41.380	-21.607	1.00	0.00	O
	ATOM	7111	N	LYS A 907	23.612	43.783	-23.092	1.00	0.00	N
	ATOM	7112	CA	LYS A 907	22.691	44.723	-22.469	1.00	0.00	C
40	ATOM	7113	C	LYS A 907	22.632	44.605	-20.947	1.00	0.00	C
	ATOM	7114	O	LYS A 907	22.245	45.550	-20.265	1.00	0.00	O
	ATOM	7115	CB	LYS A 907	21.289	44.526	-23.056	1.00	0.00	C
	ATOM	7116	CG	LYS A 907	21.188	44.870	-24.538	1.00	0.00	C
	ATOM	7117	CD	LYS A 907	19.871	44.382	-25.152	1.00	0.00	C
45	ATOM	7118	CE	LYS A 907	18.652	44.923	-24.409	1.00	0.00	C
	ATOM	7119	NZ	LYS A 907	18.557	46.412	-24.456	1.00	0.00	N
	ATOM	7120	N	LEU A 908	23.025	43.453	-20.414	1.00	0.00	N
	ATOM	7121	CA	LEU A 908	22.976	43.233	-18.971	1.00	0.00	C
	ATOM	7122	C	LEU A 908	24.275	43.546	-18.223	1.00	0.00	C
50	ATOM	7123	O	LEU A 908	24.312	43.504	-16.994	1.00	0.00	O
	ATOM	7124	CB	LEU A 908	22.549	41.789	-18.683	1.00	0.00	C
	ATOM	7125	CG	LEU A 908	21.173	41.378	-19.229	1.00	0.00	C
	ATOM	7126	CD1	LEU A 908	20.900	39.920	-18.895	1.00	0.00	C
	ATOM	7127	CD2	LEU A 908	20.086	42.274	-18.634	1.00	0.00	C
55	ATOM	7128	N	HIS A 909	25.336	43.857	-18.959	1.00	0.00	N
	ATOM	7129	CA	HIS A 909	26.623	44.172	-18.343	1.00	0.00	C
	ATOM	7130	C	HIS A 909	26.538	45.556	-17.687	1.00	0.00	C
	ATOM	7131	O	HIS A 909	26.028	46.501	-18.287	1.00	0.00	O
	ATOM	7132	CB	HIS A 909	27.723	44.148	-19.408	1.00	0.00	C
60	ATOM	7133	CG	HIS A 909	29.098	43.932	-18.859	1.00	0.00	C
	ATOM	7134	ND1	HIS A 909	29.772	44.889	-18.130	1.00	0.00	N

	ATOM	7135	CD2	HIS	A	909	29.927	42.863	-18.933	1.00	0.00	C
	ATOM	7136	CE1	HIS	A	909	30.956	44.420	-17.781	1.00	0.00	C
	ATOM	7137	NE2	HIS	A	909	31.076	43.193	-18.257	1.00	0.00	N
	ATOM	7138	N	PRO	A	910	27.030	45.687	-16.444	1.00	0.00	N
5	ATOM	7139	CA	PRO	A	910	27.000	46.958	-15.710	1.00	0.00	C
	ATOM	7140	C	PRO	A	910	28.073	47.968	-16.111	1.00	0.00	C
	ATOM	7141	O	PRO	A	910	28.051	49.109	-15.644	1.00	0.00	O
	ATOM	7142	CB	PRO	A	910	27.184	46.529	-14.248	1.00	0.00	C
	ATOM	7143	CG	PRO	A	910	26.897	45.044	-14.246	1.00	0.00	C
10	ATOM	7144	CD	PRO	A	910	27.464	44.597	-15.556	1.00	0.00	C
	ATOM	7145	N	ALA	A	911	29.013	47.557	-16.956	1.00	0.00	N
	ATOM	7146	CA	ALA	A	911	30.093	48.449	-17.358	1.00	0.00	C
	ATOM	7147	C	ALA	A	911	30.048	48.926	-18.801	1.00	0.00	C
	ATOM	7148	O	ALA	A	911	29.282	48.424	-19.624	1.00	0.00	O
15	ATOM	7149	CB	ALA	A	911	31.442	47.775	-17.091	1.00	0.00	C
	ATOM	7150	N	GLY	A	912	30.897	49.907	-19.086	1.00	0.00	N
	ATOM	7151	CA	GLY	A	912	31.020	50.460	-20.420	1.00	0.00	C
	ATOM	7152	C	GLY	A	912	32.492	50.754	-20.617	1.00	0.00	C
	ATOM	7153	O	GLY	A	912	33.220	50.906	-19.633	1.00	0.00	O
20	ATOM	7154	N	TYR	A	913	32.941	50.828	-21.868	1.00	0.00	N
	ATOM	7155	CA	TYR	A	913	34.346	51.103	-22.150	1.00	0.00	C
	ATOM	7156	C	TYR	A	913	34.533	52.138	-23.247	1.00	0.00	C
	ATOM	7157	O	TYR	A	913	33.729	52.233	-24.173	1.00	0.00	O
	ATOM	7158	CB	TYR	A	913	35.074	49.812	-22.542	1.00	0.00	C
25	ATOM	7159	CG	TYR	A	913	35.025	48.761	-21.459	1.00	0.00	C
	ATOM	7160	CD1	TYR	A	913	34.031	47.786	-21.453	1.00	0.00	C
	ATOM	7161	CD2	TYR	A	913	35.931	48.786	-20.400	1.00	0.00	C
	ATOM	7162	CE1	TYR	A	913	33.934	46.864	-20.415	1.00	0.00	C
	ATOM	7163	CE2	TYR	A	913	35.844	47.869	-19.356	1.00	0.00	C
30	ATOM	7164	CZ	TYR	A	913	34.841	46.914	-19.370	1.00	0.00	C
	ATOM	7165	OH	TYR	A	913	34.724	46.024	-18.328	1.00	0.00	O
	ATOM	7166	N	LEU	A	914	35.608	52.911	-23.132	1.00	0.00	N
	ATOM	7167	CA	LEU	A	914	35.930	53.941	-24.112	1.00	0.00	C
	ATOM	7168	C	LEU	A	914	36.561	53.350	-25.362	1.00	0.00	C
35	ATOM	7169	O	LEU	A	914	37.007	52.196	-25.378	1.00	0.00	O
	ATOM	7170	CB	LEU	A	914	36.916	54.960	-23.525	1.00	0.00	C
	ATOM	7171	CG	LEU	A	914	36.485	55.854	-22.357	1.00	0.00	C
	ATOM	7172	CD1	LEU	A	914	37.599	56.849	-22.060	1.00	0.00	C
	ATOM	7173	CD2	LEU	A	914	35.190	56.592	-22.701	1.00	0.00	C
40	ATOM	7174	N	THR	A	915	36.587	54.167	-26.409	1.00	0.00	N
	ATOM	7175	CA	THR	A	915	37.200	53.813	-27.677	1.00	0.00	C
	ATOM	7176	C	THR	A	915	38.606	54.388	-27.573	1.00	0.00	C
	ATOM	7177	O	THR	A	915	38.893	55.173	-26.670	1.00	0.00	O
	ATOM	7178	CB	THR	A	915	36.514	54.519	-28.852	1.00	0.00	C
45	ATOM	7179	OG1	THR	A	915	36.489	55.928	-28.593	1.00	0.00	O
	ATOM	7180	CG2	THR	A	915	35.097	54.011	-29.047	1.00	0.00	C
	ATOM	7181	N	SER	A	916	39.474	54.007	-28.501	1.00	0.00	N
	ATOM	7182	CA	SER	A	916	40.841	54.506	-28.521	1.00	0.00	C
	ATOM	7183	C	SER	A	916	40.879	56.033	-28.585	1.00	0.00	C
50	ATOM	7184	O	SER	A	916	41.628	56.674	-27.851	1.00	0.00	O
	ATOM	7185	CB	SER	A	916	41.584	53.936	-29.728	1.00	0.00	C
	ATOM	7186	OG	SER	A	916	42.821	54.596	-29.915	1.00	0.00	O
	ATOM	7187	N	ALA	A	917	40.065	56.613	-29.463	1.00	0.00	N
	ATOM	7188	CA	ALA	A	917	40.035	58.067	-29.619	1.00	0.00	C
55	ATOM	7189	C	ALA	A	917	39.606	58.772	-28.341	1.00	0.00	C
	ATOM	7190	O	ALA	A	917	40.203	59.777	-27.948	1.00	0.00	O
	ATOM	7191	CB	ALA	A	917	39.100	58.454	-30.759	1.00	0.00	C
	ATOM	7192	N	ALA	A	918	38.566	58.251	-27.698	1.00	0.00	N
	ATOM	7193	CA	ALA	A	918	38.061	58.853	-26.469	1.00	0.00	C
60	ATOM	7194	C	ALA	A	918	39.092	58.749	-25.349	1.00	0.00	C
	ATOM	7195	O	ALA	A	918	39.267	59.678	-24.553	1.00	0.00	O

ATOM	7196	CB	ALA	A	918	36.762	58.176	-26.054	1.00	0.00	C
ATOM	7197	N	HIS	A	919	39.774	57.613	-25.286	1.00	0.00	N
ATOM	7198	CA	HIS	A	919	40.788	57.409	-24.261	1.00	0.00	C
ATOM	7199	C	HIS	A	919	41.955	58.374	-24.471	1.00	0.00	C
ATOM	7200	O	HIS	A	919	42.406	59.031	-23.530	1.00	0.00	O
ATOM	7201	CB	HIS	A	919	41.282	55.958	-24.285	1.00	0.00	C
ATOM	7202	CG	HIS	A	919	42.389	55.682	-23.315	1.00	0.00	C
ATOM	7203	ND1	HIS	A	919	43.662	55.340	-23.718	1.00	0.00	N
ATOM	7204	CD2	HIS	A	919	42.422	55.729	-21.963	1.00	0.00	C
ATOM	7205	CE1	HIS	A	919	44.433	55.190	-22.656	1.00	0.00	C
ATOM	7206	NE2	HIS	A	919	43.705	55.421	-21.578	1.00	0.00	N
ATOM	7207	N	LYS	A	920	42.438	58.474	-25.704	1.00	0.00	N
ATOM	7208	CA	LYS	A	920	43.545	59.379	-25.978	1.00	0.00	C
ATOM	7209	C	LYS	A	920	43.142	60.825	-25.712	1.00	0.00	C
ATOM	7210	O	LYS	A	920	43.961	61.627	-25.257	1.00	0.00	O
ATOM	7211	CB	LYS	A	920	44.041	59.215	-27.420	1.00	0.00	C
ATOM	7212	CG	LYS	A	920	44.916	57.974	-27.614	1.00	0.00	C
ATOM	7213	CD	LYS	A	920	45.588	57.952	-28.980	1.00	0.00	C
ATOM	7214	CE	LYS	A	920	46.543	56.779	-29.094	1.00	0.00	C
ATOM	7215	NZ	LYS	A	920	47.662	56.877	-28.112	1.00	0.00	N
ATOM	7216	N	ALA	A	921	41.882	61.153	-25.985	1.00	0.00	N
ATOM	7217	CA	ALA	A	921	41.392	62.511	-25.755	1.00	0.00	C
ATOM	7218	C	ALA	A	921	41.437	62.810	-24.254	1.00	0.00	C
ATOM	7219	O	ALA	A	921	41.793	63.915	-23.840	1.00	0.00	O
ATOM	7220	CB	ALA	A	921	39.964	62.658	-26.295	1.00	0.00	C
ATOM	7221	N	SER	A	922	41.084	61.823	-23.435	1.00	0.00	N
ATOM	7222	CA	SER	A	922	41.119	62.014	-21.989	1.00	0.00	C
ATOM	7223	C	SER	A	922	42.558	62.256	-21.541	1.00	0.00	C
ATOM	7224	O	SER	A	922	42.820	63.112	-20.700	1.00	0.00	O
ATOM	7225	CB	SER	A	922	40.571	60.783	-21.261	1.00	0.00	C
ATOM	7226	OG	SER	A	922	40.656	60.960	-19.853	1.00	0.00	O
ATOM	7227	N	GLN	A	923	43.492	61.499	-22.108	1.00	0.00	N
ATOM	7228	CA	GLN	A	923	44.896	61.650	-21.748	1.00	0.00	C
ATOM	7229	C	GLN	A	923	45.434	63.022	-22.152	1.00	0.00	C
ATOM	7230	O	GLN	A	923	46.315	63.565	-21.483	1.00	0.00	O
ATOM	7231	CB	GLN	A	923	45.739	60.551	-22.398	1.00	0.00	C
ATOM	7232	CG	GLN	A	923	45.409	59.138	-21.921	1.00	0.00	C
ATOM	7233	CD	GLN	A	923	46.343	58.104	-22.517	1.00	0.00	C
ATOM	7234	OE1	GLN	A	923	46.494	58.027	-23.737	1.00	0.00	O
ATOM	7235	NE2	GLN	A	923	46.980	57.301	-21.658	1.00	0.00	N
ATOM	7236	N	SER	A	924	44.901	63.582	-23.236	1.00	0.00	N
ATOM	7237	CA	SER	A	924	45.344	64.895	-23.703	1.00	0.00	C
ATOM	7238	C	SER	A	924	44.952	65.979	-22.703	1.00	0.00	C
ATOM	7239	O	SER	A	924	45.596	67.026	-22.628	1.00	0.00	O
ATOM	7240	CB	SER	A	924	44.728	65.227	-25.067	1.00	0.00	C
ATOM	7241	OG	SER	A	924	43.364	65.602	-24.936	1.00	0.00	O
ATOM	7242	N	LEU	A	925	43.889	65.728	-21.944	1.00	0.00	N
ATOM	7243	CA	LEU	A	925	43.413	66.686	-20.951	1.00	0.00	C
ATOM	7244	C	LEU	A	925	44.095	66.525	-19.592	1.00	0.00	C
ATOM	7245	O	LEU	A	925	44.482	67.509	-18.959	1.00	0.00	O
ATOM	7246	CB	LEU	A	925	41.897	66.535	-20.761	1.00	0.00	C
ATOM	7247	CG	LEU	A	925	41.003	66.794	-21.978	1.00	0.00	C
ATOM	7248	CD1	LEU	A	925	39.558	66.416	-21.647	1.00	0.00	C
ATOM	7249	CD2	LEU	A	925	41.097	68.256	-22.385	1.00	0.00	C
ATOM	7250	N	LEU	A	926	44.242	65.284	-19.146	1.00	0.00	N
ATOM	7251	CA	LEU	A	926	44.838	65.026	-17.840	1.00	0.00	C
ATOM	7252	C	LEU	A	926	46.357	64.965	-17.804	1.00	0.00	C
ATOM	7253	O	LEU	A	926	46.962	65.310	-16.790	1.00	0.00	O
ATOM	7254	CB	LEU	A	926	44.270	63.730	-17.252	1.00	0.00	C
ATOM	7255	CG	LEU	A	926	42.757	63.721	-17.007	1.00	0.00	C
ATOM	7256	CD1	LEU	A	926	42.344	62.384	-16.408	1.00	0.00	C

	ATOM	7257	CD2	LEU	A	926	42.376	64.868	-16.072	1.00	0.00	C
	ATOM	7258	N	ASP	A	927	46.976	64.522	-18.892	1.00	0.00	N
	ATOM	7259	CA	ASP	A	927	48.431	64.416	-18.923	1.00	0.00	C
	ATOM	7260	C	ASP	A	927	49.021	64.910	-20.233	1.00	0.00	C
5	ATOM	7261	O	ASP	A	927	49.584	64.140	-21.009	1.00	0.00	O
	ATOM	7262	CB	ASP	A	927	48.846	62.968	-18.665	1.00	0.00	C
	ATOM	7263	CG	ASP	A	927	48.501	62.517	-17.259	1.00	0.00	C
	ATOM	7264	OD1	ASP	A	927	49.213	62.918	-16.315	1.00	0.00	O
	ATOM	7265	OD2	ASP	A	927	47.510	61.779	-17.097	1.00	0.00	O
10	ATOM	7266	N	PRO	A	928	48.901	66.221	-20.488	1.00	0.00	N
	ATOM	7267	CA	PRO	A	928	49.419	66.837	-21.709	1.00	0.00	C
	ATOM	7268	C	PRO	A	928	50.933	66.933	-21.660	1.00	0.00	C
	ATOM	7269	O	PRO	A	928	51.550	66.675	-20.622	1.00	0.00	O
	ATOM	7270	CB	PRO	A	928	48.775	68.217	-21.686	1.00	0.00	C
15	ATOM	7271	CG	PRO	A	928	48.824	68.553	-20.231	1.00	0.00	C
	ATOM	7272	CD	PRO	A	928	48.356	67.247	-19.579	1.00	0.00	C
	ATOM	7273	N	LEU	A	929	51.531	67.302	-22.786	1.00	0.00	N
	ATOM	7274	CA	LEU	A	929	52.972	67.476	-22.827	1.00	0.00	C
	ATOM	7275	C	LEU	A	929	53.279	68.648	-21.902	1.00	0.00	C
20	ATOM	7276	O	LEU	A	929	52.476	69.571	-21.777	1.00	0.00	O
	ATOM	7277	CB	LEU	A	929	53.437	67.849	-24.236	1.00	0.00	C
	ATOM	7278	CG	LEU	A	929	53.238	66.866	-25.385	1.00	0.00	C
	ATOM	7279	CD1	LEU	A	929	53.804	67.483	-26.665	1.00	0.00	C
	ATOM	7280	CD2	LEU	A	929	53.945	65.551	-25.074	1.00	0.00	C
25	ATOM	7281	N	ASP	A	930	54.431	68.601	-21.244	1.00	0.00	N
	ATOM	7282	CA	ASP	A	930	54.851	69.695	-20.379	1.00	0.00	C
	ATOM	7283	C	ASP	A	930	55.776	70.560	-21.226	1.00	0.00	C
	ATOM	7284	O	ASP	A	930	56.530	70.040	-22.051	1.00	0.00	O
	ATOM	7285	CB	ASP	A	930	55.595	69.151	-19.167	1.00	0.00	C
30	ATOM	7286	CG	ASP	A	930	54.765	68.166	-18.392	1.00	0.00	C
	ATOM	7287	OD1	ASP	A	930	53.736	68.594	-17.828	1.00	0.00	O
	ATOM	7288	OD2	ASP	A	930	55.130	66.972	-18.362	1.00	0.00	O
	ATOM	7289	N	LYS	A	931	55.721	71.871	-21.024	1.00	0.00	N
	ATOM	7290	CA	LYS	A	931	56.540	72.791	-21.807	1.00	0.00	C
35	ATOM	7291	C	LYS	A	931	57.511	73.605	-20.966	1.00	0.00	C
	ATOM	7292	O	LYS	A	931	57.118	74.237	-19.985	1.00	0.00	O
	ATOM	7293	CB	LYS	A	931	55.628	73.735	-22.601	1.00	0.00	C
	ATOM	7294	CG	LYS	A	931	54.629	73.017	-23.506	1.00	0.00	C
	ATOM	7295	CD	LYS	A	931	53.721	74.004	-24.239	1.00	0.00	C
40	ATOM	7296	CE	LYS	A	931	52.860	74.794	-23.266	1.00	0.00	C
	ATOM	7297	NZ	LYS	A	931	51.982	75.779	-23.948	1.00	0.00	N
	ATOM	7298	N	PHE	A	932	58.779	73.605	-21.374	1.00	0.00	N
	ATOM	7299	CA	PHE	A	932	59.824	74.335	-20.663	1.00	0.00	C
	ATOM	7300	C	PHE	A	932	60.511	75.376	-21.548	1.00	0.00	C
45	ATOM	7301	O	PHE	A	932	60.877	75.088	-22.682	1.00	0.00	O
	ATOM	7302	CB	PHE	A	932	60.893	73.369	-20.141	1.00	0.00	C
	ATOM	7303	CG	PHE	A	932	60.359	72.274	-19.265	1.00	0.00	C
	ATOM	7304	CD1	PHE	A	932	59.740	71.158	-19.820	1.00	0.00	C
	ATOM	7305	CD2	PHE	A	932	60.498	72.346	-17.882	1.00	0.00	C
50	ATOM	7306	CE1	PHE	A	932	59.269	70.123	-19.009	1.00	0.00	C
	ATOM	7307	CE2	PHE	A	932	60.033	71.321	-17.062	1.00	0.00	C
	ATOM	7308	CZ	PHE	A	932	59.417	70.206	-17.627	1.00	0.00	C
	ATOM	7309	N	ILE	A	933	60.677	76.586	-21.020	1.00	0.00	N
	ATOM	7310	CA	ILE	A	933	61.345	77.666	-21.750	1.00	0.00	C
55	ATOM	7311	C	ILE	A	933	62.697	77.920	-21.083	1.00	0.00	C
	ATOM	7312	O	ILE	A	933	62.750	78.202	-19.887	1.00	0.00	O
	ATOM	7313	CB	ILE	A	933	60.540	78.982	-21.685	1.00	0.00	C
	ATOM	7314	CG1	ILE	A	933	59.119	78.764	-22.208	1.00	0.00	C
	ATOM	7315	CG2	ILE	A	933	61.262	80.066	-22.483	1.00	0.00	C
60	ATOM	7316	CD1	ILE	A	933	58.211	79.978	-22.038	1.00	0.00	C
	ATOM	7317	N	PHE	A	934	63.788	77.817	-21.841	1.00	0.00	N

	ATOM	7318	CA	PHE	A	934	65.109	78.048	-21.264	1.00	0.00	C
	ATOM	7319	C	PHE	A	934	65.204	79.506	-20.807	1.00	0.00	O
	ATOM	7320	O	PHE	A	934	64.931	80.424	-21.578	1.00	0.00	O
	ATOM	7321	CB	PHE	A	934	66.206	77.745	-22.286	1.00	0.00	C
5	ATOM	7322	CG	PHE	A	934	67.583	77.727	-21.692	1.00	0.00	C
	ATOM	7323	CD1	PHE	A	934	67.965	76.704	-20.831	1.00	0.00	C
	ATOM	7324	CD2	PHE	A	934	68.480	78.758	-21.953	1.00	0.00	C
	ATOM	7325	CE1	PHE	A	934	69.225	76.704	-20.230	1.00	0.00	C
	ATOM	7326	CE2	PHE	A	934	69.741	78.772	-21.362	1.00	0.00	C
10	ATOM	7327	CZ	PHE	A	934	70.115	77.743	-20.496	1.00	0.00	C
	ATOM	7328	N	ALA	A	935	65.599	79.713	-19.552	1.00	0.00	N
	ATOM	7329	CA	ALA	A	935	65.685	81.055	-18.974	1.00	0.00	C
	ATOM	7330	C	ALA	A	935	66.829	81.945	-19.461	1.00	0.00	C
	ATOM	7331	O	ALA	A	935	66.609	83.111	-19.799	1.00	0.00	O
15	ATOM	7332	CB	ALA	A	935	65.736	80.952	-17.455	1.00	0.00	C
	ATOM	7333	N	GLU	A	936	68.043	81.404	-19.490	1.00	0.00	N
	ATOM	7334	CA	GLU	A	936	69.217	82.164	-19.916	1.00	0.00	C
	ATOM	7335	C	GLU	A	936	69.257	82.388	-21.426	1.00	0.00	C
	ATOM	7336	O	GLU	A	936	68.447	81.833	-22.168	1.00	0.00	O
20	ATOM	7337	CB	GLU	A	936	70.493	81.442	-19.474	1.00	0.00	C
	ATOM	7338	CG	GLU	A	936	70.652	81.301	-17.966	1.00	0.00	C
	ATOM	7339	CD	GLU	A	936	˙71.755	80.322	-17.587	1.00	0.00	C
	ATOM	7340	OE1	GLU	A	936	71.554	79.099	-17.755	1.00	0.00	O
	ATOM	7341	OE2	GLU	A	936	72.827	80.774	-17.132	1.00	0.00	O
25	ATOM	7342	N	ASN	A	937	70.206	83.200	-21.879	1.00	0.00	N
	ATOM	7343	CA	ASN	A	937	70.320	83.484	-23.302	1.00	0.00	C
	ATOM	7344	C	ASN	A	937	70.888	82.316	-24.093	1.00	0.00	C
	ATOM	7345	O	ASN	A	937	70.475	82.079	-25.228	1.00	0.00	O
	ATOM	7346	CB	ASN	A	937	71.175	84.734	-23.537	1.00	0.00	C
30	ATOM	7347	CG	ASN	A	937	70.507	85.997	-23.030	1.00	0.00	C
	ATOM	7348	OD1	ASN	A	937	69.289	86.157	-23.136	1.00	0.00	O
	ATOM	7349	ND2	ASN	A	937	71.303	86.909	-22.491	1.00	0.00	N
	ATOM	7350	N	GLU	A	938	71.830	81.586	-23.501	1.00	0.00	N
	ATOM	7351	CA	GLU	A	938	72.429	80.444	-24.185	1.00	0.00	C
35	ATOM	7352	C	GLU	A	938	72.505	79.186	-23.324	1.00	0.00	C
	ATOM	7353	O	GLU	A	938	72.896	79.234	-22.157	1.00	0.00	O
	ATOM	7354	CB	GLU	A	938	73.830	80.797	-24.697	1.00	0.00	C
	ATOM	7355	CG	GLU	A	938	74.579	79.600	-25.272	1.00	0.00	C
	ATOM	7356	CD	GLU	A	938	75.803	79.992	-26.073	1.00	0.00	C
40	ATOM	7357	OE1	GLU	A	938	76.643	80.756	-25.551	1.00	0.00	O
	ATOM	7358	OE2	GLU	A	938	75.926	79.527	-27.227	1.00	0.00	O
	ATOM	7359	N	TRP	A	939	72.128	78.060	-23.921	1.00	0.00	N
	ATOM	7360	CA	TRP	A	939	72.147	76.771	-23.240	1.00	0.00	C
	ATOM	7361	C	TRP	A	939	73.332	75.968	-23.767	1.00	0.00	C
45	ATOM	7362	O	TRP	A	939	73.240	75.302	-24.796	1.00	0.00	O
	ATOM	7363	CB	TRP	A	939	70.830	76.029	-23.506	1.00	0.00	C
	ATOM	7364	CG	TRP	A	939	70.711	74.676	-22.854	1.00	0.00	C
	ATOM	7365	CD1	TRP	A	939	71.603	74.083	-22.004	1.00	0.00	C
	ATOM	7366	CD2	TRP	A	939	69.631	73.747	-23.012	1.00	0.00	C
50	ATOM	7367	NE1	TRP	A	939	71.144	72.842	-21.624	1.00	0.00	N
	ATOM	7368	CE2	TRP	A	939	69.936	72.612	-22.229	1.00	0.00	C
	ATOM	7369	CE3	TRP	A	939	68.435	73.764	-23.742	1.00	0.00	C
	ATOM	7370	CZ2	TRP	A	939	69.085	71.503	-22.154	1.00	0.00	C
	ATOM	7371	CZ3	TRP	A	939	67.588	72.661	-23.668	1.00	0.00	C
55	ATOM	7372	CH2	TRP	A	939	67.920	71.547	-22.878	1.00	0.00	C
	ATOM	7373	N	ILE	A	940	74.452	76.048	-23.059	1.00	0.00	N
	ATOM	7374	CA	ILE	A	940	75.659	75.337	-23.466	1.00	0.00	C
	ATOM	7375	C	ILE	A	940	75.550	73.837	-23.190	1.00	0.00	C
	ATOM	7376	O	ILE	A	940	75.172	73.425	-22.095	1.00	0.00	O
60	ATOM	7377	CB	ILE	A	940	76.897	75.912	-22.741	1.00	0.00	C
	ATOM	7378	CG1	ILE	A	940	77.062	77.390	-23.108	1.00	0.00	C

ATOM	7379	CG2	ILE	A	940	78.144	75.135	-23.127	1.00	0.00	C
ATOM	7380	CD1	ILE	A	940	78.216	78.080	-22.406	1.00	0.00	C
ATOM	7381	N	GLY	A	941	75.872	73.029	-24.194	1.00	0.00	N
ATOM	7382	CA	GLY	A	941	75.808	71.586	-24.035	1.00	0.00	C
ATOM	7383	C	GLY	A	941	74.421	71.000	-24.241	1.00	0.00	C
ATOM	7384	O	GLY	A	941	74.192	69.823	-23.957	1.00	0.00	O
ATOM	7385	N	ALA	A	942	73.500	71.815	-24.749	1.00	0.00	N
ATOM	7386	CA	ALA	A	942	72.129	71.375	-24.993	1.00	0.00	C
ATOM	7387	C	ALA	A	942	72.022	70.166	-25.923	1.00	0.00	C
ATOM	7388	O	ALA	A	942	72.756	70.057	-26.907	1.00	0.00	O
ATOM	7389	CB	ALA	A	942	71.310	72.532	-25.561	1.00	0.00	C
ATOM	7390	N	GLN	A	943	71.098	69.264	-25.603	1.00	0.00	N
ATOM	7391	CA	GLN	A	943	70.862	68.070	-26.410	1.00	0.00	C
ATOM	7392	C	GLN	A	943	69.431	68.132	-26.938	1.00	0.00	C
ATOM	7393	O	GLN	A	943	68.564	68.759	-26.328	1.00	0.00	O
ATOM	7394	CB	GLN	A	943	71.081	66.807	-25.573	1.00	0.00	C
ATOM	7395	CG	GLN	A	943	72.451	66.766	-24.909	1.00	0.00	C
ATOM	7396	CD	GLN	A	943	72.715	65.465	-24.176	1.00	0.00	C
ATOM	7397	OE1	GLN	A	943	71.863	64.974	-23.432	1.00	0.00	O
ATOM	7398	NE2	GLN	A	943	73.906	64.905	-24.372	1.00	0.00	N
ATOM	7399	N	GLY	A	944	69.178	67.475	-28.064	1.00	0.00	N
ATOM	7400	CA	GLY	A	944	67.857	67.544	-28.658	1.00	0.00	C
ATOM	7401	C	GLY	A	944	66.794	66.553	-28.247	1.00	0.00	C
ATOM	7402	O	GLY	A	944	65.619	66.765	-28.540	1.00	0.00	O
ATOM	7403	N	GLN	A	945	67.175	65.480	-27.565	1.00	0.00	N
ATOM	7404	CA	GLN	A	945	66.180	64.488	-27.191	1.00	0.00	C
ATOM	7405	C	GLN	A	945	66.628	63.536	-26.090	1.00	0.00	C
ATOM	7406	O	GLN	A	945	67.820	63.280	-25.914	1.00	0.00	O
ATOM	7407	CB	GLN	A	945	65.800	63.694	-28.444	1.00	0.00	C
ATOM	7408	CG	GLN	A	945	64.874	62.512	-28.238	1.00	0.00	C
ATOM	7409	CD	GLN	A	945	64.618	61.765	-29.537	1.00	0.00	C
ATOM	7410	OE1	GLN	A	945	63.877	62.233	-30.406	1.00	0.00	O
ATOM	7411	NE2	GLN	A	945	65.244	60.606	-29.682	1.00	0.00	N
ATOM	7412	N	PHE	A	946	65.649	63.026	-25.348	1.00	0.00	N
ATOM	7413	CA	PHE	A	946	65.886	62.060	-24.286	1.00	0.00	C
ATOM	7414	C	PHE	A	946	64.790	61.007	-24.344	1.00	0.00	C
ATOM	7415	O	PHE	A	946	63.610	61.339	-24.468	1.00	0.00	O
ATOM	7416	CB	PHE	A	946	65.864	62.720	-22.904	1.00	0.00	C
ATOM	7417	CG	PHE	A	946	65.751	61.731	-21.773	1.00	0.00	C
ATOM	7418	CD1	PHE	A	946	66.778	60.828	-21.516	1.00	0.00	C
ATOM	7419	CD2	PHE	A	946	64.588	61.658	-21.009	1.00	0.00	C
ATOM	7420	CE1	PHE	A	946	66.652	59.854	-20.514	1.00	0.00	C
ATOM	7421	CE2	PHE	A	946	64.447	60.691	-20.005	1.00	0.00	C
ATOM	7422	CZ	PHE	A	946	65.482	59.784	-19.758	1.00	0.00	C
ATOM	7423	N	GLY	A	947	65.185	59.741	-24.260	1.00	0.00	N
ATOM	7424	CA	GLY	A	947	64.222	58.657	-24.279	1.00	0.00	C
ATOM	7425	C	GLY	A	947	63.867	58.092	-25.638	1.00	0.00	C
ATOM	7426	O	GLY	A	947	62.903	57.339	-25.758	1.00	0.00	O
ATOM	7427	N	GLY	A	948	64.632	58.447	-26.665	1.00	0.00	N
ATOM	7428	CA	GLY	A	948	64.347	57.929	-27.989	1.00	0.00	C
ATOM	7429	C	GLY	A	948	64.381	56.413	-28.006	1.00	0.00	C
ATOM	7430	O	GLY	A	948	63.780	55.779	-28.872	1.00	0.00	O
ATOM	7431	N	ASP	A	949	65.078	55.829	-27.037	1.00	0.00	N
ATOM	7432	CA	ASP	A	949	65.195	54.379	-26.946	1.00	0.00	C
ATOM	7433	C	ASP	A	949	64.172	53.754	-25.998	1.00	0.00	C
ATOM	7434	O	ASP	A	949	64.158	52.535	-25.816	1.00	0.00	O
ATOM	7435	CB	ASP	A	949	66.615	53.999	-26.507	1.00	0.00	C
ATOM	7436	CG	ASP	A	949	66.936	54.467	-25.100	1.00	0.00	C
ATOM	7437	OD1	ASP	A	949	66.490	55.571	-24.717	1.00	0.00	O
ATOM	7438	OD2	ASP	A	949	67.646	53.736	-24.379	1.00	0.00	O
ATOM	7439	N	HIS	A	950	63.321	54.573	-25.388	1.00	0.00	N

ATOM	7440	CA	HIS	A	950	62.299	54.054	-24.482	1.00	0.00	C
ATOM	7441	C	HIS	A	950	61.272	53.277	-25.297	1.00	0.00	C
ATOM	7442	O	HIS	A	950	60.897	53.696	-26.388	1.00	0.00	O
ATOM	7443	CB	HIS	A	950	61.562	55.180	-23.750	1.00	0.00	C
ATOM	7444	CG	HIS	A	950	62.387	55.898	-22.728	1.00	0.00	C
ATOM	7445	ND1	HIS	A	950	63.627	55.460	-22.320	1.00	0.00	N
ATOM	7446	CD2	HIS	A	950	62.131	57.020	-22.015	1.00	0.00	C
ATOM	7447	CE1	HIS	A	950	64.101	56.282	-21.400	1.00	0.00	C
ATOM	7448	NE2	HIS	A	950	63.211	57.237	-21.197	1.00	0.00	N
ATOM	7449	N	PRO	A	951	60.806	52.132	-24.779	1.00	0.00	N
ATOM	7450	CA	PRO	A	951	59.812	51.339	-25.506	1.00	0.00	C
ATOM	7451	C	PRO	A	951	58.485	52.094	-25.625	1.00	0.00	C
ATOM	7452	O	PRO	A	951	58.062	52.770	-24.685	1.00	0.00	O
ATOM	7453	CB	PRO	A	951	59.682	50.080	-24.648	1.00	0.00	C
ATOM	7454	CG	PRO	A	951	61.045	49.955	-24.029	1.00	0.00	C
ATOM	7455	CD	PRO	A	951	61.345	51.375	-23.634	1.00	0.00	C
ATOM	7456	N	SER	A	952	57.841	51.994	-26.783	1.00	0.00	N
ATOM	7457	CA	SER	A	952	56.560	52.660	-27.001	1.00	0.00	C
ATOM	7458	C	SER	A	952	55.488	51.599	-26.794	1.00	0.00	C
ATOM	7459	O	SER	A	952	55.184	50.823	-27.704	1.00	0.00	O
ATOM	7460	CB	SER	A	952	56.487	53.225	-28.423	1.00	0.00	C
ATOM	7461	OG	SER	A	952	55.404	54.129	-28.568	1.00	0.00	O
ATOM	7462	N	ALA	A	953	54.921	51.575	-25.589	1.00	0.00	N
ATOM	7463	CA	ALA	A	953	53.913	50.590	-25.212	1.00	0.00	C
ATOM	7464	C	ALA	A	953	52.550	50.732	-25.872	1.00	0.00	C
ATOM	7465	O	ALA	A	953	52.175	51.807	-26.342	1.00	0.00	O
ATOM	7466	CB	ALA	A	953	53.741	50.592	-23.697	1.00	0.00	C
ATOM	7467	N	ARG	A	954	51.811	49.625	-25.876	1.00	0.00	N
ATOM	7468	CA	ARG	A	954	50.473	49.573	-26.447	1.00	0.00	C
ATOM	7469	C	ARG	A	954	49.639	50.690	-25.825	1.00	0.00	C
ATOM	7470	O	ARG	A	954	49.742	50.963	-24.625	1.00	0.00	O
ATOM	7471	CB	ARG	A	954	49.854	48.203	-26.173	1.00	0.00	C
ATOM	7472	CG	ARG	A	954	48.507	47.969	-26.831	1.00	0.00	C
ATOM	7473	CD	ARG	A	954	48.382	46.513	-27.253	1.00	0.00	C
ATOM	7474	NE	ARG	A	954	46.995	46.082	-27.379	1.00	0.00	N
ATOM	7475	CZ	ARG	A	954	46.197	45.837	-26.346	1.00	0.00	C
ATOM	7476	NH1	ARG	A	954	46.655	45.981	-25.111	1.00	0.00	N
ATOM	7477	NH2	ARG	A	954	44.946	45.442	-26.545	1.00	0.00	N
ATOM	7478	N	GLU	A	955	48.805	51.320	-26.648	1.00	0.00	N
ATOM	7479	CA	GLU	A	955	47.993	52.460	-26.225	1.00	0.00	C
ATOM	7480	C	GLU	A	955	47.134	52.324	-24.968	1.00	0.00	C
ATOM	7481	O	GLU	A	955	46.846	53.324	-24.319	1.00	0.00	O
ATOM	7482	CB	GLU	A	955	47.108	52.922	-27.385	1.00	0.00	C
ATOM	7483	CG	GLU	A	955	45.917	52.029	-27.646	1.00	0.00	C
ATOM	7484	CD	GLU	A	955	45.090	52.504	-28.820	1.00	0.00	C
ATOM	7485	OE1	GLU	A	955	44.949	53.734	-28.996	1.00	0.00	O
ATOM	7486	OE2	GLU	A	955	44.574	51.648	-29.560	1.00	0.00	O
ATOM	7487	N	ASP	A	956	46.719	51.112	-24.618	1.00	0.00	N
ATOM	7488	CA	ASP	A	956	45.889	50.954	-23.426	1.00	0.00	C
ATOM	7489	C	ASP	A	956	46.712	50.774	-22.152	1.00	0.00	C
ATOM	7490	O	ASP	A	956	46.160	50.585	-21.068	1.00	0.00	O
ATOM	7491	CB	ASP	A	956	44.895	49.789	-23.596	1.00	0.00	C
ATOM	7492	CG	ASP	A	956	45.574	48.459	-23.883	1.00	0.00	C
ATOM	7493	OD1	ASP	A	956	46.818	48.417	-23.988	1.00	0.00	O
ATOM	7494	OD2	ASP	A	956	44.848	47.445	-24.006	1.00	0.00	O
ATOM	7495	N	LEU	A	957	48.033	50.849	-22.280	1.00	0.00	N
ATOM	7496	CA	LEU	A	957	48.907	50.701	-21.121	1.00	0.00	C
ATOM	7497	C	LEU	A	957	49.501	52.049	-20.728	1.00	0.00	C
ATOM	7498	O	LEU	A	957	49.847	52.858	-21.588	1.00	0.00	O
ATOM	7499	CB	LEU	A	957	50.042	49.718	-21.426	1.00	0.00	C
ATOM	7500	CG	LEU	A	957	50.902	49.265	-20.240	1.00	0.00	C

	ATOM	7501	CD1	LEU	A	957	50.042	48.498	-19.238	1.00	0.00	C
	ATOM	7502	CD2	LEU	A	957	52.037	48.377	-20.736	1.00	0.00	C
	ATOM	7503	N	ASP	A	958	49.614	52.289	-19.427	1.00	0.00	N
	ATOM	7504	CA	ASP	A	958	50.192	53.535	-18.942	1.00	0.00	C
5	ATOM	7505	C	ASP	A	958	51.058	53.276	-17.719	1.00	0.00	C
	ATOM	7506	O	ASP	A	958	50.813	52.333	-16.965	1.00	0.00	O
	ATOM	7507	CB	ASP	A	958	49.083	54.537	-18.583	1.00	0.00	C
	ATOM	7508	CG	ASP	A	958	49.628	55.918	-18.229	1.00	0.00	C
	ATOM	7509	OD1	ASP	A	958	50.713	56.272	-18.732	1.00	0.00	O
10	ATOM	7510	OD2	ASP	A	958	48.962	56.652	-17.463	1.00	0.00	O
	ATOM	7511	N	VAL	A	959	52.101	54.083	-17.561	1.00	0.00	N
	ATOM	7512	CA	VAL	A	959	52.967	54.006	-16.390	1.00	0.00	C
	ATOM	7513	C	VAL	A	959	52.402	55.141	-15.539	1.00	0.00	C
	ATOM	7514	O	VAL	A	959	52.820	56.294	-15.658	1.00	0.00	O
15	ATOM	7515	CB	VAL	A	959	54.445	54.299	-16.738	1.00	0.00	C
	ATOM	7516	CG1	VAL	A	959	55.279	54.442	-15.447	1.00	0.00	C
	ATOM	7517	CG2	VAL	A	959	55.005	53.168	-17.593	1.00	0.00	C
	ATOM	7518	N	SER	A	960	51.416	54.804	-14.713	1.00	0.00	N
	ATOM	7519	CA	SER	A	960	50.740	55.773	-13.852	1.00	0.00	C
20	ATOM	7520	C	SER	A	960	51.688	56.483	-12.898	1.00	0.00	C
	ATOM	7521	O	SER	A	960	51.542	57.682	-12.624	1.00	0.00	O
	ATOM	7522	CB	SER	A	960	49.646	55.066	-13.046	1.00	0.00	C
	ATOM	7523	OG	SER	A	960	48.818	54.290	-13.898	1.00	0.00	O
	ATOM	7524	N	VAL	A	961	52.650	55.729	-12.383	1.00	0.00	N
25	ATOM	7525	CA	VAL	A	961	53.624	56.267	-11.446	1.00	0.00	C
	ATOM	7526	C	VAL	A	961	55.009	55.683	-11.677	1.00	0.00	C
	ATOM	7527	O	VAL	A	961	55.161	54.481	-11.924	1.00	0.00	O
	ATOM	7528	CB	VAL	A	961	53.240	55.948	-9.969	1.00	0.00	C
	ATOM	7529	CG1	VAL	A	961	54.339	56.448	-9.018	1.00	0.00	C
30	ATOM	7530	CG2	VAL	A	961	51.899	56.589	-9.613	1.00	0.00	C
	ATOM	7531	N	MET	A	962	56.006	56.560	-11.622	1.00	0.00	N
	ATOM	7532	CA	MET	A	962	57.401	56.171	-11.712	1.00	0.00	C
	ATOM	7533	C	MET	A	962	58.003	56.955	-10.560	1.00	0.00	C
	ATOM	7534	O	MET	A	962	57.976	58.188	-10.559	1.00	0.00	O
35	ATOM	7535	CB	MET	A	962	58.056	56.601	-13.021	1.00	0.00	C
	ATOM	7536	CG	MET	A	962	59.529	56.213	-13.047	1.00	0.00	C
	ATOM	7537	SD	MET	A	962	60.355	56.541	-14.598	1.00	0.00	S
	ATOM	7538	CE	MET	A	962	62.029	55.938	-14.241	1.00	0.00	C
	ATOM	7539	N	ARG	A	963	58.528	56.246	-9.568	1.00	0.00	N
40	ATOM	7540	CA	ARG	A	963	59.081	56.906	-8.393	1.00	0.00	C
	ATOM	7541	C	ARG	A	963	60.306	56.201	-7.847	1.00	0.00	C
	ATOM	7542	O	ARG	A	963	60.242	55.020	-7.519	1.00	0.00	O
	ATOM	7543	CB	ARG	A	963	58.005	56.965	-7.294	1.00	0.00	C
	ATOM	7544	CG	ARG	A	963	58.486	57.450	-5.919	1.00	0.00	C
45	ATOM	7545	CD	ARG	A	963	57.362	57.330	-4.876	1.00	0.00	C
	ATOM	7546	NE	ARG	A	963	56.174	58.055	-5.321	1.00	0.00	N
	ATOM	7547	CZ	ARG	A	963	54.929	57.597	-5.238	1.00	0.00	C
	ATOM	7548	NH1	ARG	A	963	54.679	56.405	-4.707	1.00	0.00	N
	ATOM	7549	NH2	ARG	A	963	53.935	58.317	-5.738	1.00	0.00	N
50	ATOM	7550	N	ARG	A	964	61.423	56.918	-7.755	1.00	0.00	N
	ATOM	7551	CA	ARG	A	964	62.628	56.322	-7.186	1.00	0.00	C
	ATOM	7552	C	ARG	A	964	62.316	56.255	-5.695	1.00	0.00	C
	ATOM	7553	O	ARG	A	964	61.881	57.245	-5.100	1.00	0.00	O
	ATOM	7554	CB	ARG	A	964	63.860	57.197	-7.442	1.00	0.00	C
55	ATOM	7555	CG	ARG	A	964	65.152	56.585	-6.894	1.00	0.00	C
	ATOM	7556	CD	ARG	A	964	66.386	57.327	-7.393	1.00	0.00	C
	ATOM	7557	NE	ARG	A	964	66.594	57.152	-8.830	1.00	0.00	N
	ATOM	7558	CZ	ARG	A	964	67.472	56.313	-9.371	1.00	0.00	C
	ATOM	7559	NH1	ARG	A	964	68.242	55.554	-8.600	1.00	0.00	N
60	ATOM	7560	NH2	ARG	A	964	67.596	56.243	-10.690	1.00	0.00	N
	ATOM	7561	N	LEU	A	965	62.528	55.088	-5.098	1.00	0.00	N

ATOM	7562	CA	LEU	A	965	62.204	54.869	-3.691	1.00	0.00	C
ATOM	7563	C	LEU	A	965	63.382	54.975	-2.728	1.00	0.00	C
ATOM	7564	O	LEU	A	965	63.199	54.897	-1.514	1.00	0.00	O
ATOM	7565	CB	LEU	A	965	61.552	53.491	-3.540	1.00	0.00	C
ATOM	7566	CG	LEU	A	965	60.339	53.218	-4.440	1.00	0.00	C
ATOM	7567	CD1	LEU	A	965	59.998	51.737	-4.413	1.00	0.00	C
ATOM	7568	CD2	LEU	A	965	59.151	54.063	-3.981	1.00	0.00	C
ATOM	7569	N	THR	A	966	64.582	55.160	-3.270	1.00	0.00	N
ATOM	7570	CA	THR	A	966	65.780	55.255	-2.445	1.00	0.00	C
ATOM	7571	C	THR	A	966	66.526	56.568	-2.622	1.00	0.00	C
ATOM	7572	O	THR	A	966	66.500	57.170	-3.698	1.00	0.00	O
ATOM	7573	CB	THR	A	966	66.767	54.115	-2.776	1.00	0.00	C
ATOM	7574	OG1	THR	A	966	66.988	54.074	-4.191	1.00	0.00	O
ATOM	7575	CG2	THR	A	966	66.218	52.773	-2.311	1.00	0.00	C
ATOM	7576	N	LYS	A	967	67.190	57.006	-1.558	1.00	0.00	N
ATOM	7577	CA	LYS	A	967	67.987	58.223	-1.608	1.00	0.00	C
ATOM	7578	C	LYS	A	967	69.364	57.836	-2.157	1.00	0.00	C
ATOM	7579	O	LYS	A	967	69.675	56.650	-2.275	1.00	0.00	O
ATOM	7580	CB	LYS	A	967	68.098	58.849	-0.217	1.00	0.00	C
ATOM	7581	CG	LYS	A	967	66.760	59.367	0.313	1.00	0.00	C
ATOM	7582	CD	LYS	A	967	66.947	60.187	1.577	1.00	0.00	C
ATOM	7583	CE	LYS	A	967	65.638	60.793	2.048	1.00	0.00	C
ATOM	7584	NZ	LYS	A	967	65.850	61.621	3.269	1.00	0.00	N
ATOM	7585	N	SER	A	968	70.185	58.829	-2.488	1.00	0.00	N
ATOM	7586	CA	SER	A	968	71.499	58.577	-3.078	1.00	0.00	C
ATOM	7587	C	SER	A	968	72.484	57.730	-2.270	1.00	0.00	C
ATOM	7588	O	SER	A	968	73.349	57.079	-2.850	1.00	0.00	O
ATOM	7589	CB	SER	A	968	72.175	59.904	-3.447	1.00	0.00	C
ATOM	7590	OG	SER	A	968	72.506	60.651	-2.291	1.00	0.00	O
ATOM	7591	N	SER	A	969	72.355	57.725	-0.948	1.00	0.00	N
ATOM	7592	CA	SER	A	969	73.279	56.957	-0.109	1.00	0.00	C
ATOM	7593	C	SER	A	969	73.058	55.444	-0.131	1.00	0.00	C
ATOM	7594	O	SER	A	969	73.910	54.684	0.334	1.00	0.00	O
ATOM	7595	CB	SER	A	969	73.215	57.454	1.337	1.00	0.00	C
ATOM	7596	OG	SER	A	969	71.918	57.274	1.878	1.00	0.00	O
ATOM	7597	N	ALA	A	970	71.926	55.005	-0.675	1.00	0.00	N
ATOM	7598	CA	ALA	A	970	71.612	53.578	-0.738	1.00	0.00	C
ATOM	7599	C	ALA	A	970	72.428	52.823	-1.785	1.00	0.00	C
ATOM	7600	O	ALA	A	970	72.368	53.135	-2.978	1.00	0.00	O
ATOM	7601	CB	ALA	A	970	70.121	53.385	-1.009	1.00	0.00	C
ATOM	7602	N	LYS	A	971	73.186	51.825	-1.335	1.00	0.00	N
ATOM	7603	CA	LYS	A	971	74.002	51.014	-2.236	1.00	0.00	C
ATOM	7604	C	LYS	A	971	73.142	50.415	-3.337	1.00	0.00	C
ATOM	7605	O	LYS	A	971	73.517	50.429	-4.507	1.00	0.00	O
ATOM	7606	CB	LYS	A	971	74.688	49.880	-1.470	1.00	0.00	C
ATOM	7607	CG	LYS	A	971	76.025	50.250	-0.843	1.00	0.00	C
ATOM	7608	CD	LYS	A	971	76.622	49.070	-0.082	1.00	0.00	C
ATOM	7609	CE	LYS	A	971	76.665	47.808	-0.941	1.00	0.00	C
ATOM	7610	NZ	LYS	A	971	77.418	47.998	-2.210	1.00	0.00	N
ATOM	7611	N	THR	A	972	71.993	49.868	-2.953	1.00	0.00	N
ATOM	7612	CA	THR	A	972	71.083	49.283	-3.922	1.00	0.00	C
ATOM	7613	C	THR	A	972	69.931	50.255	-4.156	1.00	0.00	C
ATOM	7614	O	THR	A	972	69.110	50.493	-3.267	1.00	0.00	O
ATOM	7615	CB	THR	A	972	70.523	47.921	-3.432	1.00	0.00	C
ATOM	7616	OG1	THR	A	972	71.603	46.991	-3.271	1.00	0.00	O
ATOM	7617	CG2	THR	A	972	69.538	47.349	-4.446	1.00	0.00	C
ATOM	7618	N	GLN	A	973	69.890	50.833	-5.351	1.00	0.00	N
ATOM	7619	CA	GLN	A	973	68.836	51.774	-5.697	1.00	0.00	C
ATOM	7620	C	GLN	A	973	67.568	51.029	-6.081	1.00	0.00	C
ATOM	7621	O	GLN	A	973	67.621	49.944	-6.662	1.00	0.00	O
ATOM	7622	CB	GLN	A	973	69.278	52.674	-6.854	1.00	0.00	C

ATOM	7623	CG	GLN A 973	70.379	53.652	-6.481	1.00	0.00	C
ATOM	7624	CD	GLN A 973	69.945	54.650	-5.426	1.00	0.00	C
ATOM	7625	OE1	GLN A 973	70.607	54.812	-4.397	1.00	0.00	O
ATOM	7626	NE2	GLN A 973	68.836	55.334	-5.678	1.00	0.00	N
ATOM	7627	N	ARG A 974	66.427	51.620	-5.749	1.00	0.00	N
ATOM	7628	CA	ARG A 974	65.145	51.015	-6.063	1.00	0.00	C
ATOM	7629	C	ARG A 974	64.220	52.030	-6.722	1.00	0.00	C
ATOM	7630	O	ARG A 974	64.128	53.187	-6.289	1.00	0.00	O
ATOM	7631	CB	ARG A 974	64.497	50.472	-4.788	1.00	0.00	C
ATOM	7632	CG	ARG A 974	65.322	49.406	-4.067	1.00	0.00	C
ATOM	7633	CD	ARG A 974	64.717	49.072	-2.701	1.00	0.00	C
ATOM	7634	NE	ARG A 974	63.452	48.345	-2.805	1.00	0.00	N
ATOM	7635	CZ	ARG A 974	62.321	48.718	-2.211	1.00	0.00	C
ATOM	7636	NH1	ARG A 974	62.286	49.817	-1.470	1.00	0.00	N
ATOM	7637	NH2	ARG A 974	61.223	47.986	-2.351	1.00	0.00	N
ATOM	7638	N	VAL A 975	63.544	51.593	-7.778	1.00	0.00	N
ATOM	7639	CA	VAL A 975	62.613	52.450	-8.496	1.00	0.00	C
ATOM	7640	C	VAL A 975	61.291	51.709	-8.620	1.00	0.00	C
ATOM	7641	O	VAL A 975	61.246	50.564	-9.079	1.00	0.00	O
ATOM	7642	CB	VAL A 975	63.148	52.810	-9.903	1.00	0.00	C
ATOM	7643	CG1	VAL A 975	62.159	53.728	-10.624	1.00	0.00	C
ATOM	7644	CG2	VAL A 975	64.498	53.498	-9.775	1.00	0.00	C
ATOM	7645	N	GLY A 976	60.217	52.365	-8.192	1.00	0.00	N
ATOM	7646	CA	GLY A 976	58.906	51.748	-8.249	1.00	0.00	C
ATOM	7647	C	GLY A 976	58.062	52.237	-9.407	1.00	0.00	C
ATOM	7648	O	GLY A 976	58.132	53.406	-9.804	1.00	0.00	O
ATOM	7649	N	TYR A 977	57.261	51.328	-9.947	1.00	0.00	N
ATOM	7650	CA	TYR A 977	56.380	51.637	-11.062	1.00	0.00	C
ATOM	7651	C	TYR A 977	54.980	51.110	-10.823	1.00	0.00	C
ATOM	7652	O	TYR A 977	54.803	49.991	-10.344	1.00	0.00	O
ATOM	7653	CB	TYR A 977	56.871	50.989	-12.360	1.00	0.00	C
ATOM	7654	CG	TYR A 977	58.264	51.359	-12.787	1.00	0.00	C
ATOM	7655	CD1	TYR A 977	59.373	50.677	-12.287	1.00	0.00	C
ATOM	7656	CD2	TYR A 977	58.478	52.388	-13.702	1.00	0.00	C
ATOM	7657	CE1	TYR A 977	60.668	51.014	-12.695	1.00	0.00	C
ATOM	7658	CE2	TYR A 977	59.759	52.734	-14.112	1.00	0.00	C
ATOM	7659	CZ	TYR A 977	60.849	52.048	-13.609	1.00	0.00	C
ATOM	7660	OH	TYR A 977	62.118	52.407	-14.016	1.00	0.00	O
ATOM	7661	N	VAL A 978	53.984	51.921	-11.160	1.00	0.00	N
ATOM	7662	CA	VAL A 978	52.606	51.484	-11.061	1.00	0.00	C
ATOM	7663	C	VAL A 978	52.145	51.449	-12.514	1.00	0.00	C
ATOM	7664	O	VAL A 978	52.166	52.468	-13.209	1.00	0.00	O
ATOM	7665	CB	VAL A 978	51.728	52.454	-10.253	1.00	0.00	C
ATOM	7666	CG1	VAL A 978	50.265	52.036	-10.369	1.00	0.00	C
ATOM	7667	CG2	VAL A 978	52.156	52.438	-8.786	1.00	0.00	C
ATOM	7668	N	LEU A 979	51.775	50.258	-12.972	1.00	0.00	N
ATOM	7669	CA	LEU A 979	51.327	50.050	-14.341	1.00	0.00	C
ATOM	7670	C	LEU A 979	49.838	49.788	-14.410	1.00	0.00	C
ATOM	7671	O	LEU A 979	49.331	48.875	-13.764	1.00	0.00	O
ATOM	7672	CB	LEU A 979	52.061	48.859	-14.963	1.00	0.00	C
ATOM	7673	CG	LEU A 979	53.383	49.114	-15.689	1.00	0.00	C
ATOM	7674	CD1	LEU A 979	53.099	49.753	-17.036	1.00	0.00	C
ATOM	7675	CD2	LEU A 979	54.285	50.000	-14.840	1.00	0.00	C
ATOM	7676	N	HIS A 980	49.137	50.589	-15.201	1.00	0.00	N
ATOM	7677	CA	HIS A 980	47.710	50.391	-15.351	1.00	0.00	C
ATOM	7678	C	HIS A 980	47.335	50.154	-16.801	1.00	0.00	C
ATOM	7679	O	HIS A 980	47.783	50.870	-17.693	1.00	0.00	O
ATOM	7680	CB	HIS A 980	46.920	51.591	-14.830	1.00	0.00	C
ATOM	7681	CG	HIS A 980	45.441	51.436	-15.001	1.00	0.00	C
ATOM	7682	ND1	HIS A 980	44.744	52.017	-16.039	1.00	0.00	N
ATOM	7683	CD2	HIS A 980	44.543	50.691	-14.316	1.00	0.00	C

	ATOM	7684	CE1	HIS A 980	43.480	51.634	-15.987	1.00	0.00	C
	ATOM	7685	NE2	HIS A 980	43.332	50.828	-14.951	1.00	0.00	N
	ATOM	7686	N	ARG A 981	46.519	49.133	-17.029	1.00	0.00	N
	ATOM	7687	CA	ARG A 981	46.051	48.831	-18.370	1.00	0.00	C
5	ATOM	7688	C	ARG A 981	44.539	48.974	-18.352	1.00	0.00	C
	ATOM	7689	O	ARG A 981	43.848	48.296	-17.593	1.00	0.00	O
	ATOM	7690	CB	ARG A 981	46.438	47.413	-18.779	1.00	0.00	C
	ATOM	7691	CG	ARG A 981	46.065	47.071	-20.214	1.00	0.00	C
	ATOM	7692	CD	ARG A 981	46.612	45.714	-20.606	1.00	0.00	C
10	ATOM	7693	NE	ARG A 981	46.188	45.321	-21.944	1.00	0.00	N
	ATOM	7694	CZ	ARG A 981	46.440	44.131	-22.485	1.00	0.00	C
	ATOM	7695	NH1	ARG A 981	47.116	43.217	-21.798	1.00	0.00	N
	ATOM	7696	NH2	ARG A 981	46.011	43.850	-23.709	1.00	0.00	N
	ATOM	7697	N	THR A 982	44.029	49.883	-19.170	1.00	0.00	N
15	ATOM	7698	CA	THR A 982	42.595	50.108	-19.253	1.00	0.00	C
	ATOM	7699	C	THR A 982	42.070	49.120	-20.293	1.00	0.00	C
	ATOM	7700	O	THR A 982	42.813	48.248	-20.744	1.00	0.00	O
	ATOM	7701	CB	THR A 982	42.301	51.560	-19.698	1.00	0.00	C
	ATOM	7702	OG1	THR A 982	40.898	51.824	-19.601	1.00	0.00	O
20	ATOM	7703	CG2	THR A 982	42.769	51.787	-21.134	1.00	0.00	C
	ATOM	7704	N	ASN A 983	40.795	49.232	-20.652	1.00	0.00	N
	ATOM	7705	CA	ASN A 983	40.232	48.351	-21.668	1.00	0.00	C
	ATOM	7706	C	ASN A 983	39.540	49.217	-22.704	1.00	0.00	C
	ATOM	7707	O	ASN A 983	38.621	49.963	-22.378	1.00	0.00	O
25	ATOM	7708	CB	ASN A 983	39.212	47.374	-21.080	1.00	0.00	C
	ATOM	7709	CG	ASN A 983	38.715	46.375	-22.114	1.00	0.00	C
	ATOM	7710	OD1	ASN A 983	39.467	45.514	-22.565	1.00	0.00	O
	ATOM	7711	ND2	ASN A 983	37.450	46.499	-22.506	1.00	0.00	N
	ATOM	7712	N	LEU A 984	39.993	49.116	-23.947	1.00	0.00	N
30	ATOM	7713	CA	LEU A 984	39.424	49.894	-25.038	1.00	0.00	C
	ATOM	7714	C	LEU A 984	38.640	48.978	-25.958	1.00	0.00	C
	ATOM	7715	O	LEU A 984	39.061	47.857	-26.231	1.00	0.00	O
	ATOM	7716	CB	LEU A 984	40.535	50.579	-25.829	1.00	0.00	C
	ATOM	7717	CG	LEU A 984	41.504	51.430	-25.003	1.00	0.00	C
35	ATOM	7718	CD1	LEU A 984	42.577	51.997	-25.922	1.00	0.00	C
	ATOM	7719	CD2	LEU A 984	40.742	52.545	-24.289	1.00	0.00	C
	ATOM	7720	N	MET A 985	37.499	49.456	-26.435	1.00	0.00	N
	ATOM	7721	CA	MET A 985	36.674	48.652	-27.324	1.00	0.00	C
	ATOM	7722	C	MET A 985	37.356	48.361	-28.648	1.00	0.00	C
40	ATOM	7723	O	MET A 985	38.050	49.210	-29.210	1.00	0.00	O
	ATOM	7724	CB	MET A 985	35.347	49.349	-27.612	1.00	0.00	C
	ATOM	7725	CG	MET A 985	34.437	49.487	-26.419	1.00	0.00	C
	ATOM	7726	SD	MET A 985	32.757	49.769	-26.967	1.00	0.00	S
	ATOM	7727	CE	MET A 985	32.914	51.378	-27.737	1.00	0.00	C
45	ATOM	7728	N	GLN A 986	37.155	47.148	-29.142	1.00	0.00	N
	ATOM	7729	CA	GLN A 986	37.711	46.760	-30.424	1.00	0.00	C
	ATOM	7730	C	GLN A 986	36.615	47.068	-31.434	1.00	0.00	C
	ATOM	7731	O	GLN A 986	35.524	46.496	-31.379	1.00	0.00	O
	ATOM	7732	CB	GLN A 986	38.077	45.273	-30.416	1.00	0.00	C
50	ATOM	7733	CG	GLN A 986	37.120	44.382	-29.645	1.00	0.00	C
	ATOM	7734	CD	GLN A 986	37.776	43.088	-29.190	1.00	0.00	C
	ATOM	7735	OE1	GLN A 986	37.140	42.244	-28.554	1.00	0.00	O
	ATOM	7736	NE2	GLN A 986	39.058	42.930	-29.509	1.00	0.00	N
	ATOM	7737	N	CYS A 987	36.900	48.001	-32.335	1.00	0.00	N
55	ATOM	7738	CA	CYS A 987	35.922	48.410	-33.331	1.00	0.00	C
	ATOM	7739	C	CYS A 987	36.382	48.177	-34.767	1.00	0.00	C
	ATOM	7740	O	CYS A 987	35.880	48.819	-35.693	1.00	0.00	O
	ATOM	7741	CB	CYS A 987	35.583	49.886	-33.143	1.00	0.00	C
	ATOM	7742	SG	CYS A 987	35.118	50.371	-31.449	1.00	0.00	S
60	ATOM	7743	N	GLY A 988	37.340	47.274	-34.951	1.00	0.00	N
	ATOM	7744	CA	GLY A 988	37.811	46.972	-36.291	1.00	0.00	C

ATOM	7745	C	GLY	A	988	39.100	47.636	-36.732	1.00	0.00	C
ATOM	7746	O	GLY	A	988	39.528	47.451	-37.872	1.00	0.00	O
ATOM	7747	N	THR	A	989	39.719	48.412	-35.849	1.00	0.00	N
ATOM	7748	CA	THR	A	989	40.972	49.077	-36.187	1.00	0.00	C
ATOM	7749	C	THR	A	989	42.145	48.151	-35.880	1.00	0.00	C
ATOM	7750	O	THR	A	989	42.332	47.724	-34.739	1.00	0.00	O
ATOM	7751	CB	THR	A	989	41.148	50.387	-35.395	1.00	0.00	C
ATOM	7752	OG1	THR	A	989	40.102	51.301	-35.747	1.00	0.00	O
ATOM	7753	CG2	THR	A	989	42.493	51.024	-35.713	1.00	0.00	C
ATOM	7754	N	PRO	A	990	42.950	47.824	-36.905	1.00	0.00	N
ATOM	7755	CA	PRO	A	990	44.115	46.944	-36.777	1.00	0.00	C
ATOM	7756	C	PRO	A	990	44.996	47.214	-35.555	1.00	0.00	C
ATOM	7757	O	PRO	A	990	45.331	46.286	-34.816	1.00	0.00	O
ATOM	7758	CB	PRO	A	990	44.851	47.169	-38.092	1.00	0.00	C
ATOM	7759	CG	PRO	A	990	43.719	47.347	-39.054	1.00	0.00	C
ATOM	7760	CD	PRO	A	990	42.799	48.287	-38.297	1.00	0.00	C
ATOM	7761	N	GLU	A	991	45.370	48.475	-35.346	1.00	0.00	N
ATOM	7762	CA	GLU	A	991	46.212	48.847	-34.206	1.00	0.00	C
ATOM	7763	C	GLU	A	991	47.358	47.848	-34.040	1.00	0.00	C
ATOM	7764	O	GLU	A	991	47.252	46.887	-33.276	1.00	0.00	O
ATOM	7765	CB	GLU	A	991	45.366	48.889	-32.930	1.00	0.00	C
ATOM	7766	CG	GLU	A	991	44.289	49.969	-32.936	1.00	0.00	C
ATOM	7767	CD	GLU	A	991	43.310	49.828	-31.781	1.00	0.00	C
ATOM	7768	OE1	GLU	A	991	43.767	49.696	-30.626	1.00	0.00	O
ATOM	7769	OE2	GLU	A	991	42.084	49.852	-32.029	1.00	0.00	O
ATOM	7770	N	GLU	A	992	48.458	48.086	-34.747	1.00	0.00	N
ATOM	7771	CA	GLU	A	992	49.600	47.181	-34.695	1.00	0.00	C
ATOM	7772	C	GLU	A	992	50.908	47.810	-34.220	1.00	0.00	C
ATOM	7773	O	GLU	A	992	50.939	48.929	-33.704	1.00	0.00	O
ATOM	7774	CB	GLU	A	992	49.825	46.565	-36.078	1.00	0.00	C
ATOM	7775	CG	GLU	A	992	48.602	45.879	-36.669	1.00	0.00	C
ATOM	7776	CD	GLU	A	992	48.828	45.426	-38.101	1.00	0.00	C
ATOM	7777	OE1	GLU	A	992	49.733	44.593	-38.330	1.00	0.00	O
ATOM	7778	OE2	GLU	A	992	48.102	45.906	-38.999	1.00	0.00	O
ATOM	7779	N	HIS	A	993	51.986	47.055	-34.422	1.00	0.00	N
ATOM	7780	CA	HIS	A	993	53.350	47.436	-34.064	1.00	0.00	C
ATOM	7781	C	HIS	A	993	53.557	48.283	-32.810	1.00	0.00	C
ATOM	7782	O	HIS	A	993	53.522	49.515	-32.857	1.00	0.00	O
ATOM	7783	CB	HIS	A	993	54.043	48.114	-35.257	1.00	0.00	C
ATOM	7784	CG	HIS	A	993	53.288	49.275	-35.828	1.00	0.00	C
ATOM	7785	ND1	HIS	A	993	52.085	49.133	-36.485	1.00	0.00	N
ATOM	7786	CD2	HIS	A	993	53.574	50.599	-35.851	1.00	0.00	C
ATOM	7787	CE1	HIS	A	993	51.663	50.318	-36.889	1.00	0.00	C
ATOM	7788	NE2	HIS	A	993	52.549	51.225	-36.517	1.00	0.00	N
ATOM	7789	N	THR	A	994	53.781	47.598	-31.691	1.00	0.00	N
ATOM	7790	CA	THR	A	994	54.044	48.237	-30.404	1.00	0.00	C
ATOM	7791	C	THR	A	994	55.011	47.331	-29.644	1.00	0.00	C
ATOM	7792	O	THR	A	994	54.918	46.104	-29.726	1.00	0.00	O
ATOM	7793	CB	THR	A	994	52.760	48.422	-29.564	1.00	0.00	C
ATOM	7794	OG1	THR	A	994	52.154	47.147	-29.321	1.00	0.00	O
ATOM	7795	CG2	THR	A	994	51.775	49.328	-30.290	1.00	0.00	C
ATOM	7796	N	GLN	A	995	55.938	47.935	-28.911	1.00	0.00	N
ATOM	7797	CA	GLN	A	995	56.930	47.175	-28.164	1.00	0.00	C
ATOM	7798	C	GLN	A	995	56.453	46.797	-26.770	1.00	0.00	C
ATOM	7799	O	GLN	A	995	55.673	47.517	-26.147	1.00	0.00	O
ATOM	7800	CB	GLN	A	995	58.215	47.985	-28.033	1.00	0.00	C
ATOM	7801	CG	GLN	A	995	58.670	48.646	-29.315	1.00	0.00	C
ATOM	7802	CD	GLN	A	995	59.787	49.635	-29.072	1.00	0.00	C
ATOM	7803	OE1	GLN	A	995	60.900	49.255	-28.700	1.00	0.00	O
ATOM	7804	NE2	GLN	A	995	59.493	50.915	-29.266	1.00	0.00	N
ATOM	7805	N	LYS	A	996	56.933	45.660	-26.284	1.00	0.00	N

	ATOM	7806	CA	LYS A 996	56.578	45.214	-24.950	1.00	0.00	C
	ATOM	7807	C	LYS A 996	57.287	46.147	-23.979	1.00	0.00	C
	ATOM	7808	O	LYS A 996	58.456	46.480	-24.174	1.00	0.00	O
	ATOM	7809	CB	LYS A 996	57.047	43.773	-24.726	1.00	0.00	C
5	ATOM	7810	CG	LYS A 996	56.326	42.746	-25.586	1.00	0.00	C
	ATOM	7811	CD	LYS A 996	54.839	42.691	-25.249	1.00	0.00	C
	ATOM	7812	CE	LYS A 996	54.130	41.618	-26.058	1.00	0.00	C
	ATOM	7813	NZ	LYS A 996	54.698	40.267	-25.786	1.00	0.00	N
	ATOM	7814	N	LEU A 997	56.577	46.583	-22.946	1.00	0.00	N
10	ATOM	7815	CA	LEU A 997	57.173	47.472	-21.962	1.00	0.00	C
	ATOM	7816	C	LEU A 997	57.565	46.708	-20.710	1.00	0.00	C
	ATOM	7817	O	LEU A 997	56.713	46.147	-20.023	1.00	0.00	O
	ATOM	7818	CB	LEU A 997	56.203	48.597	-21.588	1.00	0.00	C
	ATOM	7819	CG	LEU A 997	56.677	49.529	-20.463	1.00	0.00	C
15	ATOM	7820	CD1	LEU A 997	57.946	50.258	-20.885	1.00	0.00	C
	ATOM	7821	CD2	LEU A 997	55.576	50.524	-20.128	1.00	0.00	C
	ATOM	7822	N	ASP A 998	58.863	46.679	-20.432	1.00	0.00	N
	ATOM	7823	CA	ASP A 998	59.390	46.015	-19.247	1.00	0.00	C
	ATOM	7824	C	ASP A 998	60.001	47.118	-18.396	1.00	0.00	C
20	ATOM	7825	O	ASP A 998	61.173	47.458	-18.555	1.00	0.00	O
	ATOM	7826	CB	ASP A 998	60.468	44.998	-19.633	1.00	0.00	C
	ATOM	7827	CG	ASP A 998	61.140	44.373	-18.423	1.00	0.00	C
	ATOM	7828	OD1	ASP A 998	62.150	43.661	-18.609	1.00	0.00	O
	ATOM	7829	OD2	ASP A 998	60.658	44.589	-17.288	1.00	0.00	O
25	ATOM	7830	N	VAL A 999	59.203	47.685	-17.497	1.00	0.00	N
	ATOM	7831	CA	VAL A 999	59.681	48.770	-16.652	1.00	0.00	C
	ATOM	7832	C	VAL A 999	60.915	48.416	-15.831	1.00	0.00	C
	ATOM	7833	O	VAL A 999	61.680	49.300	-15.447	1.00	0.00	O
	ATOM	7834	CB	VAL A 999	58.572	49.283	-15.693	1.00	0.00	C
30	ATOM	7835	CG1	VAL A 999	57.392	49.791	-16.502	1.00	0.00	C
	ATOM	7836	CG2	VAL A 999	58.139	48.184	-14.735	1.00	0.00	C
	ATOM	7837	N	CYS A1000	61.126	47.134	-15.563	1.00	0.00	N
	ATOM	7838	CA	CYS A1000	62.289	46.765	-14.774	1.00	0.00	C
	ATOM	7839	C	CYS A1000	63.614	46.969	-15.503	1.00	0.00	C
35	ATOM	7840	O	CYS A1000	64.668	46.992	-14.878	1.00	0.00	O
	ATOM	7841	CB	CYS A1000	62.156	45.332	-14.260	1.00	0.00	C
	ATOM	7842	SG	CYS A1000	61.384	45.278	-12.604	1.00	0.00	S
	ATOM	7843	N	HIS A1001	63.564	47.135	-16.821	1.00	0.00	N
	ATOM	7844	CA	HIS A1001	64.791	47.370	-17.577	1.00	0.00	C
40	ATOM	7845	C	HIS A1001	64.900	48.799	-18.109	1.00	0.00	C
	ATOM	7846	O	HIS A1001	65.747	49.090	-18.955	1.00	0.00	O
	ATOM	7847	CB	HIS A1001	64.925	46.371	-18.729	1.00	0.00	C
	ATOM	7848	CG	HIS A1001	65.448	45.035	-18.304	1.00	0.00	C
	ATOM	7849	ND1	HIS A1001	64.643	44.058	-17.761	1.00	0.00	N
45	ATOM	7850	CD2	HIS A1001	66.706	44.535	-18.293	1.00	0.00	C
	ATOM	7851	CE1	HIS A1001	65.382	43.013	-17.433	1.00	0.00	C
	ATOM	7852	NE2	HIS A1001	66.638	43.277	-17.744	1.00	0.00	N
	ATOM	7853	N	LEU A1002	64.047	49.692	-17.614	1.00	0.00	N
	ATOM	7854	CA	LEU A1002	64.086	51.088	-18.045	1.00	0.00	C
50	ATOM	7855	C	LEU A1002	65.368	51.738	-17.551	1.00	0.00	C
	ATOM	7856	O	LEU A1002	65.914	52.628	-18.202	1.00	0.00	O
	ATOM	7857	CB	LEU A1002	62.871	51.855	-17.519	1.00	0.00	C
	ATOM	7858	CG	LEU A1002	61.593	51.676	-18.339	1.00	0.00	C
	ATOM	7859	CD1	LEU A1002	60.439	52.392	-17.658	1.00	0.00	C
55	ATOM	7860	CD2	LEU A1002	61.810	52.221	-19.745	1.00	0.00	C
	ATOM	7861	N	LEU A1003	65.837	51.297	-16.388	1.00	0.00	N
	ATOM	7862	CA	LEU A1003	67.083	51.801	-15.827	1.00	0.00	C
	ATOM	7863	C	LEU A1003	68.108	50.676	-15.939	1.00	0.00	C
	ATOM	7864	O	LEU A1003	67.772	49.502	-15.785	1.00	0.00	O
60	ATOM	7865	CB	LEU A1003	66.897	52.217	-14.368	1.00	0.00	C
	ATOM	7866	CG	LEU A1003	66.049	53.477	-14.167	1.00	0.00	C

ATOM	7867	CD1	LEU	A1003	65.967	53.807	-12.694	1.00	0.00	C
ATOM	7868	CD2	LEU	A1003	66.667	54.639	-14.926	1.00	0.00	C
ATOM	7869	N	PRO	A1004	69.373	51.022	-16.214	1.00	0.00	N
ATOM	7870	CA	PRO	A1004	70.442	50.030	-16.357	1.00	0.00	C
ATOM	7871	C	PRO	A1004	70.900	49.361	-15.068	1.00	0.00	C
ATOM	7872	O	PRO	A1004	70.573	49.804	-13.962	1.00	0.00	O
ATOM	7873	CB	PRO	A1004	71.560	50.839	-17.002	1.00	0.00	C
ATOM	7874	CG	PRO	A1004	71.410	52.161	-16.320	1.00	0.00	C
ATOM	7875	CD	PRO	A1004	69.906	52.387	-16.384	1.00	0.00	C
ATOM	7876	N	ASN	A1005	71.653	48.278	-15.234	1.00	0.00	N
ATOM	7877	CA	ASN	A1005	72.214	47.535	-14.115	1.00	0.00	C
ATOM	7878	C	ASN	A1005	71.172	46.948	-13.170	1.00	0.00	C
ATOM	7879	O	ASN	A1005	71.366	46.943	-11.956	1.00	0.00	O
ATOM	7880	CB	ASN	A1005	73.154	48.448	-13.331	1.00	0.00	C
ATOM	7881	CG	ASN	A1005	74.155	49.154	-14.226	1.00	0.00	C
ATOM	7882	OD1	ASN	A1005	74.340	50.370	-14.132	1.00	0.00	O
ATOM	7883	ND2	ASN	A1005	74.808	48.395	-15.098	1.00	0.00	N
ATOM	7884	N	VAL	A1006	70.073	46.447	-13.720	1.00	0.00	N
ATOM	7885	CA	VAL	A1006	69.029	45.864	-12.885	1.00	0.00	C
ATOM	7886	C	VAL	A1006	69.545	44.576	-12.245	1.00	0.00	C
ATOM	7887	O	VAL	A1006	70.105	43.714	-12.923	1.00	0.00	O
ATOM	7888	CB	VAL	A1006	67.745	45.570	-13.701	1.00	0.00	C
ATOM	7889	CG1	VAL	A1006	68.040	44.593	-14.822	1.00	0.00	C
ATOM	7890	CG2	VAL	A1006	66.660	45.020	-12.782	1.00	0.00	C
ATOM	7891	N	ALA	A1007	69.363	44.462	-10.933	1.00	0.00	N
ATOM	7892	CA	ALA	A1007	69.815	43.294	-10.184	1.00	0.00	C
ATOM	7893	C	ALA	A1007	68.642	42.398	-9.790	1.00	0.00	C
ATOM	7894	O	ALA	A1007	68.819	41.208	-9.522	1.00	0.00	O
ATOM	7895	CB	ALA	A1007	70.584	43.739	-8.941	1.00	0.00	C
ATOM	7896	N	ARG	A1008	67.446	42.974	-9.739	1.00	0.00	N
ATOM	7897	CA	ARG	A1008	66.252	42.204	-9.412	1.00	0.00	C
ATOM	7898	C	ARG	A1008	64.983	42.973	-9.747	1.00	0.00	C
ATOM	7899	O	ARG	A1008	64.980	44.205	-9.807	1.00	0.00	O
ATOM	7900	CB	ARG	A1008	66.240	41.784	-7.936	1.00	0.00	C
ATOM	7901	CG	ARG	A1008	66.187	42.913	-6.931	1.00	0.00	C
ATOM	7902	CD	ARG	A1008	66.059	42.362	-5.511	1.00	0.00	C
ATOM	7903	NE	ARG	A1008	67.201	41.527	-5.135	1.00	0.00	N
ATOM	7904	CZ	ARG	A1008	68.451	41.970	-5.012	1.00	0.00	C
ATOM	7905	NH1	ARG	A1008	68.735	43.248	-5.232	1.00	0.00	N
ATOM	7906	NH2	ARG	A1008	69.422	41.130	-4.673	1.00	0.00	N
ATOM	7907	N	CYS	A1009	63.911	42.225	-9.980	1.00	0.00	N
ATOM	7908	CA	CYS	A1009	62.618	42.797	-10.323	1.00	0.00	C
ATOM	7909	C	CYS	A1009	61.573	42.098	-9.473	1.00	0.00	C
ATOM	7910	O	CYS	A1009	61.503	40.867	-9.454	1.00	0.00	O
ATOM	7911	CB	CYS	A1009	62.323	42.562	-11.800	1.00	0.00	C
ATOM	7912	SG	CYS	A1009	60.805	43.356	-12.418	1.00	0.00	S
ATOM	7913	N	GLU	A1010	60.757	42.879	-8.774	1.00	0.00	N
ATOM	7914	CA	GLU	A1010	59.741	42.304	-7.909	1.00	0.00	C
ATOM	7915	C	GLU	A1010	58.370	42.940	-8.094	1.00	0.00	C
ATOM	7916	O	GLU	A1010	58.255	44.144	-8.343	1.00	0.00	O
ATOM	7917	CB	GLU	A1010	60.177	42.454	-6.448	1.00	0.00	C
ATOM	7918	CG	GLU	A1010	61.490	41.749	-6.118	1.00	0.00	C
ATOM	7919	CD	GLU	A1010	62.115	42.239	-4.826	1.00	0.00	C
ATOM	7920	OE1	GLU	A1010	62.535	43.417	-4.778	1.00	0.00	O
ATOM	7921	OE2	GLU	A1010	62.187	41.449	-3.858	1.00	0.00	O
ATOM	7922	N	ARG	A1011	57.331	42.119	-7.990	1.00	0.00	N
ATOM	7923	CA	ARG	A1011	55.968	42.619	-8.082	1.00	0.00	C
ATOM	7924	C	ARG	A1011	55.648	42.973	-6.634	1.00	0.00	C
ATOM	7925	O	ARG	A1011	55.974	42.213	-5.720	1.00	0.00	O
ATOM	7926	CB	ARG	A1011	55.009	41.535	-8.574	1.00	0.00	C
ATOM	7927	CG	ARG	A1011	53.594	42.048	-8.837	1.00	0.00	C

ATOM	7928	CD	ARG	A1011	52.583	40.913	-8.851	1.00	0.00	C
ATOM	7929	NE	ARG	A1011	52.917	39.880	-9.826	1.00	0.00	N
ATOM	7930	CZ	ARG	A1011	52.897	40.055	-11.144	1.00	0.00	C
ATOM	7931	NH1	ARG	A1011	52.556	41.233	-11.654	1.00	0.00	N
ATOM	7932	NH2	ARG	A1011	53.215	39.051	-11.953	1.00	0.00	N
ATOM	7933	N	THR	A1012	55.027	44.125	-6.419	1.00	0.00	N
ATOM	7934	CA	THR	A1012	54.704	44.560	-5.068	1.00	0.00	C
ATOM	7935	C	THR	A1012	53.271	45.056	-4.984	1.00	0.00	C
ATOM	7936	O	THR	A1012	52.569	45.156	-5.990	1.00	0.00	O
ATOM	7937	CB	THR	A1012	55.600	45.741	-4.630	1.00	0.00	C
ATOM	7938	OG1	THR	A1012	55.243	46.907	-5.389	1.00	0.00	O
ATOM	7939	CG2	THR	A1012	57.072	45.429	-4.865	1.00	0.00	C
ATOM	7940	N	THR	A1013	52.842	45.362	-3.767	1.00	0.00	N
ATOM	7941	CA	THR	A1013	51.521	45.921	-3.557	1.00	0.00	C
ATOM	7942	C	THR	A1013	51.618	47.310	-4.206	1.00	0.00	C
ATOM	7943	O	THR	A1013	52.724	47.817	-4.421	1.00	0.00	O
ATOM	7944	CB	THR	A1013	51.225	46.037	-2.050	1.00	0.00	C
ATOM	7945	OG1	THR	A1013	52.407	46.479	-1.366	1.00	0.00	O
ATOM	7946	CG2	THR	A1013	50.807	44.674	-1.481	1.00	0.00	C
ATOM	7947	N	LEU	A1014	50.482	47.924	-4.521	1.00	0.00	N
ATOM	7948	CA	LEU	A1014	50.487	49.233	-5.179	1.00	0.00	C
ATOM	7949	C	LEU	A1014	51.176	50.344	-4.403	1.00	0.00	C
ATOM	7950	O	LEU	A1014	51.532	51.376	-4.977	1.00	0.00	O
ATOM	7951	CB	LEU	A1014	49.059	49.663	-5.512	1.00	0.00	C
ATOM	7952	CG	LEU	A1014	48.272	48.715	-6.417	1.00	0.00	C
ATOM	7953	CD1	LEU	A1014	46.969	49.396	-6.821	1.00	0.00	C
ATOM	7954	CD2	LEU	A1014	49.094	48.355	-7.652	1.00	0.00	C
ATOM	7955	N	THR	A1015	51.365	50.131	-3.104	1.00	0.00	N
ATOM	7956	CA	THR	A1015	52.021	51.104	-2.235	1.00	0.00	C
ATOM	7957	C	THR	A1015	53.529	50.863	-2.184	1.00	0.00	C
ATOM	7958	O	THR	A1015	54.264	51.630	-1.550	1.00	0.00	O
ATOM	7959	CB	THR	A1015	51.499	51.001	-0.795	1.00	0.00	C
ATOM	7960	OG1	THR	A1015	51.618	49.642	-0.353	1.00	0.00	O
ATOM	7961	CG2	THR	A1015	50.042	51.449	-0.708	1.00	0.00	C
ATOM	7962	N	PHE	A1016	53.972	49.792	-2.844	1.00	0.00	N
ATOM	7963	CA	PHE	A1016	55.387	49.406	-2.891	1.00	0.00	C
ATOM	7964	C	PHE	A1016	55.884	48.877	-1.547	1.00	0.00	C
ATOM	7965	O	PHE	A1016	57.071	48.584	-1.394	1.00	0.00	O
ATOM	7966	CB	PHE	A1016	56.270	50.602	-3.283	1.00	0.00	C
ATOM	7967	CG	PHE	A1016	55.967	51.177	-4.638	1.00	0.00	C
ATOM	7968	CD1	PHE	A1016	55.825	52.553	-4.800	1.00	0.00	C
ATOM	7969	CD2	PHE	A1016	55.837	50.355	-5.750	1.00	0.00	C
ATOM	7970	CE1	PHE	A1016	55.556	53.101	-6.052	1.00	0.00	C
ATOM	7971	CE2	PHE	A1016	55.568	50.896	-7.010	1.00	0.00	C
ATOM	7972	CZ	PHE	A1016	55.427	52.269	-7.158	1.00	0.00	C
ATOM	7973	N	LEU	A1017	54.982	48.734	-0.580	1.00	0.00	N
ATOM	7974	CA	LEU	A1017	55.378	48.292	0.754	1.00	0.00	C
ATOM	7975	C	LEU	A1017	55.600	46.800	0.987	1.00	0.00	C
ATOM	7976	O	LEU	A1017	56.282	46.425	1.941	1.00	0.00	O
ATOM	7977	CB	LEU	A1017	54.388	48.849	1.785	1.00	0.00	C
ATOM	7978	CG	LEU	A1017	54.346	50.388	1.783	1.00	0.00	C
ATOM	7979	CD1	LEU	A1017	53.334	50.891	2.800	1.00	0.00	C
ATOM	7980	CD2	LEU	A1017	55.733	50.947	2.097	1.00	0.00	C
ATOM	7981	N	GLN	A1018	55.039	45.945	0.139	1.00	0.00	N
ATOM	7982	CA	GLN	A1018	55.241	44.508	0.308	1.00	0.00	C
ATOM	7983	C	GLN	A1018	55.602	43.819	-1.005	1.00	0.00	C
ATOM	7984	O	GLN	A1018	54.967	44.049	-2.034	1.00	0.00	O
ATOM	7985	CB	GLN	A1018	53.989	43.837	0.890	1.00	0.00	C
ATOM	7986	CG	GLN	A1018	54.178	42.329	1.116	1.00	0.00	C
ATOM	7987	CD	GLN	A1018	52.897	41.591	1.474	1.00	0.00	C
ATOM	7988	OE1	GLN	A1018	52.911	40.375	1.688	1.00	0.00	O

	ATOM	7989	NE2	GLN	A1018	51.784	42.315	1.534	1.00	0.00	N
	ATOM	7990	N	ASN	A1019	56.624	42.969	-0.967	1.00	0.00	N
	ATOM	7991	CA	ASN	A1019	57.032	42.237	-2.158	1.00	0.00	C
	ATOM	7992	C	ASN	A1019	56.123	41.021	-2.288	1.00	0.00	C
5	ATOM	7993	O	ASN	A1019	55.946	40.266	-1.333	1.00	0.00	O
	ATOM	7994	CB	ASN	A1019	58.494	41.795	-2.046	1.00	0.00	C
	ATOM	7995	CG	ASN	A1019	59.445	42.967	-1.889	1.00	0.00	C
	ATOM	7996	OD1	ASN	A1019	59.319	43.980	-2.583	1.00	0.00	O
	ATOM	7997	ND2	ASN	A1019	60.412	42.833	-0.985	1.00	0.00	N
10	ATOM	7998	N	LEU	A1020	55.542	40.837	-3.468	1.00	0.00	N
	ATOM	7999	CA	LEU	A1020	54.633	39.724	-3.706	1.00	0.00	C
	ATOM	8000	C	LEU	A1020	55.233	38.645	-4.597	1.00	0.00	C
	ATOM	8001	O	LEU	A1020	54.877	37.470	-4.480	1.00	0.00	O
	ATOM	8002	CB	LEU	A1020	53.340	40.230	-4.351	1.00	0.00	C
15	ATOM	8003	CG	LEU	A1020	52.538	41.316	-3.629	1.00	0.00	C
	ATOM	8004	CD1	LEU	A1020	51.419	41.807	-4.540	1.00	0.00	C
	ATOM	8005	CD2	LEU	A1020	51.974	40.771	-2.327	1.00	0.00	C
	ATOM	8006	N	GLU	A1021	56.134	39.040	-5.492	1.00	0.00	N
	ATOM	8007	CA	GLU	A1021	56.750	38.088	-6.414	1.00	0.00	C
20	ATOM	8008	C	GLU	A1021	58.165	38.439	-6.848	1.00	0.00	C
	ATOM	8009	O	GLU	A1021	58.472	39.599	-7.125	1.00	0.00	O
	ATOM	8010	CB	GLU	A1021	55.910	37.959	-7.686	1.00	0.00	C
	ATOM	8011	CG	GLU	A1021	54.585	37.250	-7.547	1.00	0.00	C
	ATOM	8012	CD	GLU	A1021	53.900	37.083	-8.893	1.00	0.00	C
25	ATOM	8013	OE1	GLU	A1021	54.566	36.609	-9.842	1.00	0.00	O
	ATOM	8014	OE2	GLU	A1021	52.701	37.421	-9.005	1.00	0.00	O
	ATOM	8015	N	HIS	A1022	59.017	37.420	-6.917	1.00	0.00	N
	ATOM	8016	CA	HIS	A1022	60.388	37.590	-7.379	1.00	0.00	C
	ATOM	8017	C	HIS	A1022	60.300	37.187	-8.848	1.00	0.00	C
30	ATOM	8018	O	HIS	A1022	60.066	36.020	-9.170	1.00	0.00	O
	ATOM	8019	CB	HIS	A1022	61.338	36.660	-6.622	1.00	0.00	C
	ATOM	8020	CG	HIS	A1022	62.776	36.828	-7.005	1.00	0.00	C
	ATOM	8021	ND1	HIS	A1022	63.436	38.034	-6.906	1.00	0.00	N
	ATOM	8022	CD2	HIS	A1022	63.679	35.945	-7.494	1.00	0.00	C
35	ATOM	8023	CE1	HIS	A1022	64.683	37.887	-7.317	1.00	0.00	C
	ATOM	8024	NE2	HIS	A1022	64.857	36.628	-7.679	1.00	0.00	N
	ATOM	8025	N	LEU	A1023	60.474	38.160	-9.733	1.00	0.00	N
	ATOM	8026	CA	LEU	A1023	60.357	37.928	-11.166	1.00	0.00	C
	ATOM	8027	C	LEU	A1023	61.607	37.393	-11.851	1.00	0.00	C
40	ATOM	8028	O	LEU	A1023	62.663	38.024	-11.828	1.00	0.00	O
	ATOM	8029	CB	LEU	A1023	59.911	39.225	-11.841	1.00	0.00	C
	ATOM	8030	CG	LEU	A1023	58.658	39.827	-11.195	1.00	0.00	C
	ATOM	8031	CD1	LEU	A1023	58.383	41.203	-11.767	1.00	0.00	C
	ATOM	8032	CD2	LEU	A1023	57.477	38.896	-11.420	1.00	0.00	C
45	ATOM	8033	N	ASP	A1024	61.473	36.224	-12.469	1.00	0.00	N
	ATOM	8034	CA	ASP	A1024	62.587	35.603	-13.174	1.00	0.00	C
	ATOM	8035	C	ASP	A1024	63.002	36.444	-14.371	1.00	0.00	C
	ATOM	8036	O	ASP	A1024	62.179	37.137	-14.972	1.00	0.00	O
	ATOM	8037	CB	ASP	A1024	62.207	34.194	-13.638	1.00	0.00	C
50	ATOM	8038	CG	ASP	A1024	62.364	33.154	-12.540	1.00	0.00	C
	ATOM	8039	OD1	ASP	A1024	62.094	31.964	-12.807	1.00	0.00	O
	ATOM	8040	OD2	ASP	A1024	62.763	33.524	-11.413	1.00	0.00	O
	ATOM	8041	N	GLY	A1025	64.285	36.384	-14.711	1.00	0.00	N
	ATOM	8042	CA	GLY	A1025	64.787	37.154	-15.833	1.00	0.00	C
55	ATOM	8043	C	GLY	A1025	64.712	38.640	-15.551	1.00	0.00	C
	ATOM	8044	O	GLY	A1025	65.052	39.463	-16.401	1.00	0.00	O
	ATOM	8045	N	MET	A1026	64.265	38.981	-14.345	1.00	0.00	N
	ATOM	8046	CA	MET	A1026	64.139	40.372	-13.935	1.00	0.00	C
	ATOM	8047	C	MET	A1026	63.255	41.126	-14.921	1.00	0.00	C
60	ATOM	8048	O	MET	A1026	63.495	42.295	-15.220	1.00	0.00	O
	ATOM	8049	CB	MET	A1026	65.518	41.028	-13.867	1.00	0.00	C

	ATOM	8050	CG	MET A1026	66.519	40.268	-13.015	1.00	0.00	C
	ATOM	8051	SD	MET A1026	68.104	41.110	-12.896	1.00	0.00	S
	ATOM	8052	CE	MET A1026	68.904	40.531	-14.390	1.00	0.00	C
	ATOM	8053	N	VAL A1027	62.231	40.447	-15.425	1.00	0.00	N
5	ATOM	8054	CA	VAL A1027	61.318	41.058	-16.380	1.00	0.00	C
	ATOM	8055	C	VAL A1027	59.932	41.268	-15.791	1.00	0.00	C
	ATOM	8056	O	VAL A1027	59.299	40.328	-15.311	1.00	0.00	O
	ATOM	8057	CB	VAL A1027	61.177	40.199	-17.651	1.00	0.00	C
	ATOM	8058	CG1	VAL A1027	60.154	40.826	-18.590	1.00	0.00	C
10	ATOM	8059	CG2	VAL A1027	62.522	40.072	-18.343	1.00	0.00	C
	ATOM	8060	N	ALA A1028	59.464	42.510	-15.833	1.00	0.00	N
	ATOM	8061	CA	ALA A1028	58.142	42.838	-15.322	1.00	0.00	C
	ATOM	8062	C	ALA A1028	57.147	42.690	-16.463	1.00	0.00	C
	ATOM	8063	O	ALA A1028	57.124	43.502	-17.390	1.00	0.00	O
15	ATOM	8064	CB	ALA A1028	58.118	44.266	-14.782	1.00	0.00	C
	ATOM	8065	N	PRO A1029	56.319	41.639	-16.419	1.00	0.00	N
	ATOM	8066	CA	PRO A1029	55.322	41.404	-17.466	1.00	0.00	C
	ATOM	8067	C	PRO A1029	54.213	42.453	-17.411	1.00	0.00	C
	ATOM	8068	O	PRO A1029	53.915	42.994	-16.347	1.00	0.00	O
20	ATOM	8069	CB	PRO A1029	54.814	40.005	-17.142	1.00	0.00	C
	ATOM	8070	CG	PRO A1029	54.879	39.978	-15.649	1.00	0.00	C
	ATOM	8071	CD	PRO A1029	56.224	40.614	-15.363	1.00	0.00	C
	ATOM	8072	N	GLU A1030	53.608	42.743	-18.557	1.00	0.00	N
	ATOM	8073	CA	GLU A1030	52.536	43.726	-18.607	1.00	0.00	C
25	ATOM	8074	C	GLU A1030	51.298	43.154	-17.924	1.00	0.00	C
	ATOM	8075	O	GLU A1030	51.187	41.940	-17.728	1.00	0.00	O
	ATOM	8076	CB	GLU A1030	52.221	44.095	-20.059	1.00	0.00	C
	ATOM	8077	CG	GLU A1030	53.444	44.504	-20.871	1.00	0.00	C
	ATOM	8078	CD	GLU A1030	53.085	44.988	-22.264	1.00	0.00	C
30	ATOM	8079	OE1	GLU A1030	52.163	44.407	-22.872	1.00	0.00	O
	ATOM	8080	OE2	GLU A1030	53.728	45.940	-22.755	1.00	0.00	O
	ATOM	8081	N	VAL A1031	50.366	44.029	-17.564	1.00	0.00	N
	ATOM	8082	CA	VAL A1031	49.155	43.599	-16.885	1.00	0.00	C
	ATOM	8083	C	VAL A1031	47.976	43.392	-17.825	1.00	0.00	C
35	ATOM	8084	O	VAL A1031	48.024	43.762	-18.995	1.00	0.00	O
	ATOM	8085	CB	VAL A1031	48.752	44.609	-15.791	1.00	0.00	C
	ATOM	8086	CG1	VAL A1031	49.863	44.713	-14.758	1.00	0.00	C
	ATOM	8087	CG2	VAL A1031	48.471	45.965	-16.406	1.00	0.00	C
	ATOM	8088	N	CYS A1032	46.921	42.786	-17.291	1.00	0.00	N
40	ATOM	8089	CA	CYS A1032	45.705	42.505	-18.044	1.00	0.00	C
	ATOM	8090	C	CYS A1032	44.805	43.735	-18.126	1.00	0.00	C
	ATOM	8091	O	CYS A1032	44.983	44.694	-17.377	1.00	0.00	O
	ATOM	8092	CB	CYS A1032	44.927	41.372	-17.370	1.00	0.00	C
	ATOM	8093	SG	CYS A1032	45.687	39.716	-17.446	1.00	0.00	S
45	ATOM	8094	N	PRO A1033	43.822	43.720	-19.044	1.00	0.00	N
	ATOM	8095	CA	PRO A1033	42.907	44.857	-19.181	1.00	0.00	C
	ATOM	8096	C	PRO A1033	42.190	45.112	-17.852	1.00	0.00	C
	ATOM	8097	O	PRO A1033	41.719	44.176	-17.205	1.00	0.00	O
	ATOM	8098	CB	PRO A1033	41.944	44.393	-20.272	1.00	0.00	C
50	ATOM	8099	CG	PRO A1033	42.818	43.522	-21.135	1.00	0.00	C
	ATOM	8100	CD	PRO A1033	43.575	42.720	-20.100	1.00	0.00	C
	ATOM	8101	N	MET A1034	42.118	46.381	-17.464	1.00	0.00	N
	ATOM	8102	CA	MET A1034	41.479	46.814	-16.225	1.00	0.00	C
	ATOM	8103	C	MET A1034	42.244	46.394	-14.974	1.00	0.00	C
55	ATOM	8104	O	MET A1034	41.728	46.497	-13.861	1.00	0.00	O
	ATOM	8105	CB	MET A1034	40.039	46.305	-16.146	1.00	0.00	C
	ATOM	8106	CG	MET A1034	39.127	46.880	-17.219	1.00	0.00	C
	ATOM	8107	SD	MET A1034	39.211	48.686	-17.324	1.00	0.00	S
	ATOM	8108	CE	MET A1034	38.245	49.175	-15.870	1.00	0.00	C
60	ATOM	8109	N	GLU A1035	43.473	45.926	-15.163	1.00	0.00	N
	ATOM	8110	CA	GLU A1035	44.312	45.516	-14.045	1.00	0.00	C

ATOM	8111	C	GLU	A1035	45.381	46.568	-13.765	1.00	0.00	C
ATOM	8112	O	GLU	A1035	45.774	47.325	-14.652	1.00	0.00	O
ATOM	8113	CB	GLU	A1035	44.984	44.165	-14.337	1.00	0.00	C
ATOM	8114	CG	GLU	A1035	46.199	43.874	-13.451	1.00	0.00	C
ATOM	8115	CD	GLU	A1035	46.687	42.430	-13.531	1.00	0.00	C
ATOM	8116	OE1	GLU	A1035	46.956	41.933	-14.651	1.00	0.00	O
ATOM	8117	OE2	GLU	A1035	46.812	41.795	-12.459	1.00	0.00	O
ATOM	8118	N	THR	A1036	45.833	46.618	-12.518	1.00	0.00	N
ATOM	8119	CA	THR	A1036	46.876	47.550	-12.116	1.00	0.00	C
ATOM	8120	C	THR	A1036	47.871	46.764	-11.279	1.00	0.00	C
ATOM	8121	O	THR	A1036	47.482	46.020	-10.380	1.00	0.00	O
ATOM	8122	CB	THR	A1036	46.320	48.701	-11.252	1.00	0.00	C
ATOM	8123	OG1	THR	A1036	45.273	49.372	-11.960	1.00	0.00	O
ATOM	8124	CG2	THR	A1036	47.421	49.702	-10.926	1.00	0.00	C
ATOM	8125	N	ALA	A1037	49.154	46.916	-11.579	1.00	0.00	N
ATOM	8126	CA	ALA	A1037	50.181	46.219	-10.825	1.00	0.00	C
ATOM	8127	C	ALA	A1037	51.314	47.177	-10.521	1.00	0.00	C
ATOM	8128	O	ALA	A1037	51.432	48.235	-11.142	1.00	0.00	O
ATOM	8129	CB	ALA	A1037	50.702	45.025	-11.616	1.00	0.00	C
ATOM	8130	N	ALA	A1038	52.132	46.815	-9.544	1.00	0.00	N
ATOM	8131	CA	ALA	A1038	53.269	47.636	-9.166	1.00	0.00	C
ATOM	8132	C	ALA	A1038	54.512	46.766	-9.194	1.00	0.00	C
ATOM	8133	O	ALA	A1038	54.467	45.589	-8.824	1.00	0.00	O
ATOM	8134	CB	ALA	A1038	53.068	48.213	-7.776	1.00	0.00	C
ATOM	8135	N	TYR	A1039	55.613	47.347	-9.655	1.00	0.00	N
ATOM	8136	CA	TYR	A1039	56.879	46.640	-9.720	1.00	0.00	C
ATOM	8137	C	TYR	A1039	57.977	47.547	-9.204	1.00	0.00	C
ATOM	8138	O	TYR	A1039	57.920	48.768	-9.362	1.00	0.00	O
ATOM	8139	CB	TYR	A1039	57.219	46.238	-11.156	1.00	0.00	C
ATOM	8140	CG	TYR	A1039	56.189	45.365	-11.834	1.00	0.00	C
ATOM	8141	CD1	TYR	A1039	55.253	45.912	-12.708	1.00	0.00	C
ATOM	8142	CD2	TYR	A1039	56.160	43.988	-11.613	1.00	0.00	C
ATOM	8143	CE1	TYR	A1039	54.314	45.111	-13.354	1.00	0.00	C
ATOM	8144	CE2	TYR	A1039	55.223	43.177	-12.253	1.00	0.00	C
ATOM	8145	CZ	TYR	A1039	54.306	43.745	-13.123	1.00	0.00	C
ATOM	8146	OH	TYR	A1039	53.385	42.950	-13.768	1.00	0.00	O
ATOM	8147	N	VAL	A1040	58.978	46.940	-8.583	1.00	0.00	N
ATOM	8148	CA	VAL	A1040	60.115	47.678	-8.067	1.00	0.00	C
ATOM	8149	C	VAL	A1040	61.359	47.015	-8.637	1.00	0.00	C
ATOM	8150	O	VAL	A1040	61.542	45.801	-8.510	1.00	0.00	O
ATOM	8151	CB	VAL	A1040	60.175	47.635	-6.524	1.00	0.00	C
ATOM	8152	CG1	VAL	A1040	61.463	48.299	-6.030	1.00	0.00	C
ATOM	8153	CG2	VAL	A1040	58.966	48.352	-5.939	1.00	0.00	C
ATOM	8154	N	SER	A1041	62.197	47.808	-9.294	1.00	0.00	N
ATOM	8155	CA	SER	A1041	63.431	47.288	-9.862	1.00	0.00	C
ATOM	8156	C	SER	A1041	64.585	47.760	-8.987	1.00	0.00	C
ATOM	8157	O	SER	A1041	64.615	48.915	-8.564	1.00	0.00	O
ATOM	8158	CB	SER	A1041	63.618	47.788	-11.301	1.00	0.00	C
ATOM	8159	OG	SER	A1041	63.698	49.202	-11.355	1.00	0.00	O
ATOM	8160	N	SER	A1042	65.521	46.856	-8.707	1.00	0.00	N
ATOM	8161	CA	SER	A1042	66.690	47.175	-7.889	1.00	0.00	C
ATOM	8162	C	SER	A1042	67.906	47.240	-8.802	1.00	0.00	C
ATOM	8163	O	SER	A1042	68.058	46.417	-9.704	1.00	0.00	O
ATOM	8164	CB	SER	A1042	66.895	46.111	-6.809	1.00	0.00	C
ATOM	8165	OG	SER	A1042	65.761	46.048	-5.958	1.00	0.00	O
ATOM	8166	N	HIS	A1043	68.768	48.223	-8.565	1.00	0.00	N
ATOM	8167	CA	HIS	A1043	69.947	48.416	-9.402	1.00	0.00	C
ATOM	8168	C	HIS	A1043	71.217	48.516	-8.570	1.00	0.00	C
ATOM	8169	O	HIS	A1043	71.268	49.239	-7.577	1.00	0.00	O
ATOM	8170	CB	HIS	A1043	69.751	49.677	-10.242	1.00	0.00	C
ATOM	8171	CG	HIS	A1043	68.444	49.700	-10.971	1.00	0.00	C

	ATOM	8172	ND1	HIS	A1043	68.287	49.175	-12.236	1.00	0.00	N
	ATOM	8173	CD2	HIS	A1043	67.212	50.095	-10.574	1.00	0.00	C
	ATOM	8174	CE1	HIS	A1043	67.015	49.242	-12.585	1.00	0.00	C
	ATOM	8175	NE2	HIS	A1043	66.340	49.795	-11.593	1.00	0.00	N
5	ATOM	8176	N	SER	A1044	72.242	47.788	-8.995	1.00	0.00	N
	ATOM	8177	CA	SER	A1044	73.511	47.763	-8.283	1.00	0.00	C
	ATOM	8178	C	SER	A1044	74.440	48.914	-8.643	1.00	0.00	C
	ATOM	8179	O	SER	A1044	74.055	49.766	-9.475	1.00	0.00	O
	ATOM	8180	CB	SER	A1044	74.215	46.425	-8.533	1.00	0.00	C
10	ATOM	8181	OG	SER	A1044	74.201	46.089	-9.912	1.00	0.00	O
	ATOM	8182	OXT	SER	A1044	75.551	48.943	-8.073	1.00	0.00	O
	ATOM	8183	OH2	WAT	W 1	41.976	63.654	-7.154	1.00	0.00	O
	ATOM	8184	OH2	WAT	W 2	53.602	65.013	-19.781	1.00	0.00	O
	ATOM	8185	OH2	WAT	W 3	39.163	63.047	-19.191	1.00	0.00	O
15	ATOM	8186	OH2	WAT	W 4	52.126	54.294	-4.852	1.00	0.00	O
	ATOM	8187	OH2	WAT	W 5	56.134	53.565	-0.644	1.00	0.00	O
	ATOM	8188	OH2	WAT	W 6	31.389	50.074	-24.074	1.00	0.00	O
	ATOM	8189	OH2	WAT	W 7	49.834	48.640	1.272	1.00	0.00	O
	ATOM	8190	OH2	WAT	W 8	36.988	57.887	13.369	1.00	0.00	O
20	ATOM	8191	OH2	WAT	W 9	26.754	69.185	-9.245	1.00	0.00	O
	ATOM	8192	OH2	WAT	W 10	39.317	64.867	-14.914	1.00	0.00	O
	ATOM	8193	OH2	WAT	W 11	34.207	58.774	-8.708	1.00	0.00	O
	ATOM	8194	OH2	WAT	W 12	60.950	59.834	-8.299	1.00	0.00	O
	ATOM	8195	OH2	WAT	W 13	36.632	72.830	0.193	1.00	0.00	O
25	ATOM	8196	OH2	WAT	W 14	31.706	47.180	-8.087	1.00	0.00	O
	ATOM	8197	OH2	WAT	W 15	30.145	55.933	17.234	1.00	0.00	O
	ATOM	8198	OH2	WAT	W 16	26.118	49.838	-13.748	1.00	0.00	O
	ATOM	8199	OH2	WAT	W 17	37.626	52.387	-21.143	1.00	0.00	O
	ATOM	8200	OH2	WAT	W 18	33.009	62.953	0.156	1.00	0.00	O
30	ATOM	8201	OH2	WAT	W 19	24.690	53.036	-11.756	1.00	0.00	O
	ATOM	8202	OH2	WAT	W 20	63.104	61.520	-7.574	1.00	0.00	O
	ATOM	8203	OH2	WAT	W 21	41.281	59.157	13.525	1.00	0.00	O
	ATOM	8204	OH2	WAT	W 22	47.275	55.960	-15.370	1.00	0.00	O
	ATOM	8205	OH2	WAT	W 23	56.384	55.894	-2.113	1.00	0.00	O
35	ATOM	8206	OH2	WAT	W 24	67.346	60.849	-5.662	1.00	0.00	O
	ATOM	8207	OH2	WAT	W 25	26.262	48.932	-10.899	1.00	0.00	O
	ATOM	8208	OH2	WAT	W 26	65.624	60.393	-7.594	1.00	0.00	O
	ATOM	8209	OH2	WAT	W 27	32.468	60.313	-1.882	1.00	0.00	O
	ATOM	8210	OH2	WAT	W 28	20.134	54.845	16.209	1.00	0.00	O
40	ATOM	8211	OH2	WAT	W 29	23.817	55.676	-23.389	1.00	0.00	O
	ATOM	8212	OH2	WAT	W 30	39.332	57.560	14.798	1.00	0.00	O
	ATOM	8213	OH2	WAT	W 31	20.347	58.955	-21.877	1.00	0.00	O
	ATOM	8214	OH2	WAT	W 32	28.078	61.165	19.428	1.00	0.00	O
	ATOM	8215	OH2	WAT	W 33	34.054	56.485	-26.253	1.00	0.00	O
45	ATOM	8216	OH2	WAT	W 34	26.331	40.115	7.990	1.00	0.00	O
	ATOM	8217	OH2	WAT	W 35	63.797	50.314	-14.009	1.00	0.00	O
	ATOM	8218	OH2	WAT	W 36	37.488	57.200	1.740	1.00	0.00	O
	ATOM	8219	OH2	WAT	W 37	24.086	42.128	6.854	1.00	0.00	O
	ATOM	8220	OH2	WAT	W 38	31.954	65.565	18.957	1.00	0.00	O
50	ATOM	8221	OH2	WAT	W 39	51.497	56.794	-5.609	1.00	0.00	O
	ATOM	8222	OH2	WAT	W 40	20.046	56.194	7.116	1.00	0.00	O
	ATOM	8223	OH2	WAT	W 41	28.269	43.982	13.133	1.00	0.00	O
	ATOM	8224	OH2	WAT	W 42	30.246	58.625	-11.781	1.00	0.00	O
	ATOM	8225	OH2	WAT	W 43	64.887	59.403	-3.625	1.00	0.00	O
55	ATOM	8226	OH2	WAT	W 44	46.354	67.851	-15.580	1.00	0.00	O
	ATOM	8227	OH2	WAT	W 45	60.700	58.458	-2.886	1.00	0.00	O
	ATOM	8228	OH2	WAT	W 46	60.504	62.266	-1.281	1.00	0.00	O
	ATOM	8229	OH2	WAT	W 47	53.603	60.069	-9.457	1.00	0.00	O
	ATOM	8230	OH2	WAT	W 48	18.568	51.200	-12.453	1.00	0.00	O
60	ATOM	8231	OH2	WAT	W 49	28.872	42.920	-11.945	1.00	0.00	O
	ATOM	8232	OH2	WAT	W 50	34.483	79.286	-9.190	1.00	0.00	O

	ATOM	8233	OH2 WAT W	51	21.525	58.047	-7.813	1.00	0.00	O
	ATOM	8234	OH2 WAT W	52	36.981	72.016	-4.631	1.00	0.00	O
	ATOM	8235	OH2 WAT W	53	55.632	59.594	-11.514	1.00	0.00	O
	ATOM	8236	OH2 WAT W	54	36.682	44.997	-5.525	1.00	0.00	O
5	ATOM	8237	OH2 WAT W	55	51.278	53.462	-24.046	1.00	0.00	O
	ATOM	8238	OH2 WAT W	56	35.166	50.774	-17.551	1.00	0.00	O
	ATOM	8239	OH2 WAT W	57	60.494	54.959	-0.396	1.00	0.00	O
	ATOM	8240	OH2 WAT W	58	42.906	56.985	6.186	1.00	0.00	O
	ATOM	8241	OH2 WAT W	59	47.856	59.460	-25.676	1.00	0.00	O
10	ATOM	8242	OH2 WAT W	60	37.848	73.649	-2.352	1.00	0.00	O
	ATOM	8243	OH2 WAT W	61	19.399	55.466	11.527	1.00	0.00	O
	ATOM	8244	OH2 WAT W	62	25.912	39.804	5.188	1.00	0.00	O
	ATOM	8245	OH2 WAT W	63	23.250	54.233	-3.650	1.00	0.00	O
	ATOM	8246	OH2 WAT W	64	34.293	52.607	-1.080	1.00	0.00	O
15	ATOM	8247	OH2 WAT W	65	50.998	44.378	-7.959	1.00	0.00	O
	ATOM	8248	OH2 WAT W	66	37.880	59.168	11.059	1.00	0.00	O
	ATOM	8249	OH2 WAT W	67	16.629	49.159	24.044	1.00	0.00	O
	ATOM	8250	OH2 WAT W	68	19.390	53.620	8.177	1.00	0.00	O
	ATOM	8251	OH2 WAT W	69	11.772	51.726	14.383	1.00	0.00	O
20	ATOM	8252	OH2 WAT W	70	17.140	56.375	10.222	1.00	0.00	O
	ATOM	8253	OH2 WAT W	71	67.975	65.714	-3.480	1.00	0.00	O
	ATOM	8254	OH2 WAT W	72	22.819	53.270	-24.432	1.00	0.00	O
	ATOM	8255	OH2 WAT W	73	52.054	50.765	6.351	1.00	0.00	O
	ATOM	8256	OH2 WAT W	74	17.599	52.928	6.337	1.00	0.00	O
25	ATOM	8257	OH2 WAT W	75	68.798	58.391	-5.079	1.00	0.00	O
	ATOM	8258	OH2 WAT W	76	33.507	48.229	-10.151	1.00	0.00	O
	ATOM	8259	OH2 WAT W	77	26.790	41.641	-13.180	1.00	0.00	O
	ATOM	8260	OH2 WAT W	78	26.742	61.083	-3.287	1.00	0.00	O
	ATOM	8261	OH2 WAT W	79	49.479	62.451	-8.645	1.00	0.00	O
30	ATOM	8262	OH2 WAT W	80	41.025	52.500	-17.001	1.00	0.00	O
	ATOM	8263	OH2 WAT W	81	31.432	76.939	-6.261	1.00	0.00	O
	ATOM	8264	OH2 WAT W	82	43.372	68.424	-24.901	1.00	0.00	O
	ATOM	8265	OH2 WAT W	83	32.759	81.310	-11.722	1.00	0.00	O
	ATOM	8266	OH2 WAT W	84	20.528	66.418	-19.640	1.00	0.00	O
35	ATOM	8267	OH2 WAT W	85	40.399	62.932	6.179	1.00	0.00	O
	ATOM	8268	OH2 WAT W	86	42.121	47.451	-24.562	1.00	0.00	O
	ATOM	8269	OH2 WAT W	87	44.531	42.000	-0.591	1.00	0.00	O
	ATOM	8270	OH2 WAT W	88	38.621	55.297	-31.696	1.00	0.00	O
	ATOM	8271	OH2 WAT W	89	22.298	54.497	-11.948	1.00	0.00	O
40	ATOM	8272	OH2 WAT W	90	48.309	89.467	-30.626	1.00	0.00	O
	ATOM	8273	OH2 WAT W	91	36.699	51.822	3.762	1.00	0.00	O
	ATOM	8274	OH2 WAT W	92	38.737	62.445	8.410	1.00	0.00	O
	ATOM	8275	OH2 WAT W	93	47.441	46.140	3.627	1.00	0.00	O
	ATOM	8276	OH2 WAT W	94	33.595	57.288	-35.878	1.00	0.00	O
45	ATOM	8277	OH2 WAT W	95	32.313	77.764	-29.564	1.00	0.00	O
	ATOM	8278	OH2 WAT W	96	39.241	39.239	17.199	1.00	0.00	O
	ATOM	8279	OH2 WAT W	97	35.924	53.322	1.328	1.00	0.00	O
	ATOM	8280	OH2 WAT W	98	14.453	60.152	5.057	1.00	0.00	O
	ATOM	8281	OH2 WAT W	99	21.658	57.289	5.019	1.00	0.00	O
50	ATOM	8282	OH2 WAT W 100		43.041	48.243	11.159	1.00	0.00	O
	ATOM	8283	OH2 WAT W 101		26.081	73.002	5.562	1.00	0.00	O
	ATOM	8284	OH2 WAT W 102		27.438	48.664	-21.564	1.00	0.00	O
	ATOM	8285	OH2 WAT W 103		33.310	78.867	-4.982	1.00	0.00	O
	ATOM	8286	OH2 WAT W 104		49.995	59.656	-11.589	1.00	0.00	O
55	ATOM	8287	OH2 WAT W 105		25.585	51.377	-9.520	1.00	0.00	O
	ATOM	8288	OH2 WAT W 106		40.204	56.517	5.844	1.00	0.00	O
	ATOM	8289	OH2 WAT W 107		14.014	59.888	-3.434	1.00	0.00	O
	ATOM	8290	OH2 WAT W 108		19.703	53.642	-11.754	1.00	0.00	O
	ATOM	8291	OH2 WAT W 109		26.515	63.824	17.139	1.00	0.00	O
60	ATOM	8292	OH2 WAT W 110		19.778	57.566	-11.797	1.00	0.00	O
	ATOM	8293	OH2 WAT W 111		47.187	48.531	11.419	1.00	0.00	O

	ATOM	8294	OH2	WAT	W	112	67.806	81.793	-25.640	1.00	0.00	O
	ATOM	8295	OH2	WAT	W	113	22.910	51.819	-8.744	1.00	0.00	O
	ATOM	8296	OH2	WAT	W	114	46.600	70.560	-36.706	1.00	0.00	O
	ATOM	8297	OH2	WAT	W	115	20.546	57.585	-5.285	1.00	0.00	O
5	ATOM	8298	OH2	WAT	W	116	18.164	60.620	24.435	1.00	0.00	O
	ATOM	8299	OH2	WAT	W	117	41.283	68.622	-32.525	1.00	0.00	O
	ATOM	8300	OH2	WAT	W	118	38.310	40.108	1.670	1.00	0.00	O
	ATOM	8301	OH2	WAT	W	119	23.864	58.245	6.322	1.00	0.00	O
	ATOM	8302	OH2	WAT	W	120	18.116	59.931	-20.090	1.00	0.00	O
10	ATOM	8303	OH2	WAT	W	121	41.272	77.741	-14.097	1.00	0.00	O
	ATOM	8304	OH2	WAT	W	122	52.834	59.194	-1.694	1.00	0.00	O
	ATOM	8305	OH2	WAT	W	123	47.929	49.601	13.774	1.00	0.00	O
	ATOM	8306	OH2	WAT	W	124	35.223	43.723	28.642	1.00	0.00	O
	ATOM	8307	OH2	WAT	W	125	59.493	60.742	-6.299	1.00	0.00	O
15	ATOM	8308	OH2	WAT	W	126	53.675	72.733	-19.141	1.00	0.00	O
	ATOM	8309	OH2	WAT	W	127	39.803	54.101	-20.844	1.00	0.00	O
	ATOM	8310	OH2	WAT	W	128	33.123	36.777	-4.396	1.00	0.00	O
	ATOM	8311	OH2	WAT	W	129	14.314	64.081	-16.354	1.00	0.00	O
	ATOM	8312	OH2	WAT	W	130	47.524	43.079	-2.432	1.00	0.00	O
20	ATOM	8313	OH2	WAT	W	131	46.908	55.986	-25.481	1.00	0.00	O
	ATOM	8314	OH2	WAT	W	132	32.142	58.803	-28.456	1.00	0.00	O
	ATOM	8315	OH2	WAT	W	133	49.282	50.063	28.217	1.00	0.00	O
	ATOM	8316	OH2	WAT	W	134	26.302	37.406	29.348	1.00	0.00	O
	ATOM	8317	OH2	WAT	W	135	51.894	46.658	1.206	1.00	0.00	O
25	ATOM	8318	OH2	WAT	W	136	41.699	58.872	-16.019	1.00	0.00	O
	ATOM	8319	OH2	WAT	W	137	13.825	54.259	4.434	1.00	0.00	O
	ATOM	8320	OH2	WAT	W	138	67.796	79.172	-25.325	1.00	0.00	O
	ATOM	8321	OH2	WAT	W	139	42.167	75.423	-16.044	1.00	0.00	O
	ATOM	8322	OH2	WAT	W	140	23.124	56.190	30.804	1.00	0.00	O
30	ATOM	8323	OH2	WAT	W	141	56.986	61.143	1.570	1.00	0.00	O
	ATOM	8324	OH2	WAT	W	142	20.070	74.557	-6.868	1.00	0.00	O
	ATOM	8325	OH2	WAT	W	143	13.368	53.676	1.802	1.00	0.00	O
	ATOM	8326	OH2	WAT	W	144	34.263	34.517	16.103	1.00	0.00	O
	ATOM	8327	OH2	WAT	W	145	33.945	64.719	-32.234	1.00	0.00	O
35	ATOM	8328	OH2	WAT	W	146	14.059	49.309	15.412	1.00	0.00	O
	ATOM	8329	OH2	WAT	W	147	30.401	35.321	-12.383	1.00	0.00	O
	ATOM	8330	OH2	WAT	W	148	18.402	55.023	14.030	1.00	0.00	O
	ATOM	8331	OH2	WAT	W	149	15.633	60.472	15.485	1.00	0.00	O
	ATOM	8332	OH2	WAT	W	150	16.788	74.865	-3.021	1.00	0.00	O
40	ATOM	8333	OH2	WAT	W	151	56.517	46.305	-17.438	1.00	0.00	O
	ATOM	8334	OH2	WAT	W	152	45.631	60.108	-18.238	1.00	0.00	O
	ATOM	8335	OH2	WAT	W	153	28.185	84.769	-35.431	1.00	0.00	O
	ATOM	8336	OH2	WAT	W	154	73.024	65.247	-7.728	1.00	0.00	O
	ATOM	8337	OH2	WAT	W	155	73.780	66.204	-17.660	1.00	0.00	O
45	ATOM	8338	OH2	WAT	W	156	59.268	50.053	-0.663	1.00	0.00	O
	ATOM	8339	OH2	WAT	W	157	23.056	78.515	-24.846	1.00	0.00	O
	ATOM	8340	OH2	WAT	W	158	14.298	54.490	-16.078	1.00	0.00	O
	ATOM	8341	OH2	WAT	W	159	43.564	73.335	5.822	1.00	0.00	O
	ATOM	8342	OH2	WAT	W	160	11.895	55.196	-12.500	1.00	0.00	O
50	ATOM	8343	OH2	WAT	W	161	63.546	44.759	-6.927	1.00	0.00	O
	ATOM	8344	OH2	WAT	W	162	24.751	51.137	-24.137	1.00	0.00	O
	ATOM	8345	OH2	WAT	W	163	35.483	45.434	-27.391	1.00	0.00	O
	ATOM	8346	OH2	WAT	W	164	28.707	49.870	-24.430	1.00	0.00	O
	ATOM	8347	OH2	WAT	W	165	54.814	81.194	-23.475	1.00	0.00	O
55	ATOM	8348	OH2	WAT	W	166	23.601	63.813	7.819	1.00	0.00	O
	ATOM	8349	OH2	WAT	W	167	49.745	57.750	-7.642	1.00	0.00	O
	ATOM	8350	OH2	WAT	W	168	46.072	71.136	0.115	1.00	0.00	O
	ATOM	8351	OH2	WAT	W	169	24.320	55.824	-1.913	1.00	0.00	O
	ATOM	8352	OH2	WAT	W	170	28.642	41.362	-21.793	1.00	0.00	O
60	ATOM	8353	OH2	WAT	W	171	37.052	45.715	27.462	1.00	0.00	O
	ATOM	8354	OH2	WAT	W	172	41.481	41.357	-17.624	1.00	0.00	O

	ATOM	8355	OH2	WAT	W	173	40.307	62.729	-31.958	1.00	0.00	O
	ATOM	8356	OH2	WAT	W	174	49.315	59.394	-28.703	1.00	0.00	O
	ATOM	8357	OH2	WAT	W	175	64.406	39.380	-10.443	1.00	0.00	O
	ATOM	8358	OH2	WAT	W	176	19.161	72.628	2.904	1.00	0.00	O
5	ATOM	8359	OH2	WAT	W	177	17.057	70.449	-16.414	1.00	0.00	O
	ATOM	8360	OH2	WAT	W	178	9.539	52.641	16.836	1.00	0.00	O
	ATOM	8361	OH2	WAT	W	179	53.885	71.468	-36.741	1.00	0.00	O
	ATOM	8362	OH2	WAT	W	180	50.902	71.060	-23.481	1.00	0.00	O
	ATOM	8363	OH2	WAT	W	181	49.374	44.299	4.432	1.00	0.00	O
10	ATOM	8364	OH2	WAT	W	182	59.359	68.451	2.377	1.00	0.00	O
	ATOM	8365	OH2	WAT	W	183	25.436	53.879	11.076	1.00	0.00	O
	ATOM	8366	OH2	WAT	W	184	69.087	61.577	-2.401	1.00	0.00	O
	ATOM	8367	OH2	WAT	W	185	58.340	77.598	-38.439	1.00	0.00	O
	ATOM	8368	OH2	WAT	W	186	44.378	46.203	9.940	1.00	0.00	O
15	ATOM	8369	OH2	WAT	W	187	46.546	57.482	-18.766	1.00	0.00	O
	ATOM	8370	OH2	WAT	W	188	33.489	83.732	-10.371	1.00	0.00	O
	ATOM	8371	OH2	WAT	W	189	47.049	68.676	-30.437	1.00	0.00	O
	ATOM	8372	OH2	WAT	W	190	44.368	56.164	-15.428	1.00	0.00	O
	ATOM	8373	OH2	WAT	W	191	13.141	67.038	-4.766	1.00	0.00	O
20	ATOM	8374	OH2	WAT	W	192	24.521	39.279	-11.477	1.00	0.00	O
	ATOM	8375	OH2	WAT	W	193	41.586	61.285	-29.726	1.00	0.00	O
	ATOM	8376	OH2	WAT	W	194	27.184	41.484	13.312	1.00	0.00	O
	ATOM	8377	OH2	WAT	W	195	41.986	88.026	-40.822	1.00	0.00	O
	ATOM	8378	OH2	WAT	W	196	69.847	70.116	-12.640	1.00	0.00	O
25	ATOM	8379	OH2	WAT	W	197	64.131	78.076	-35.187	1.00	0.00	O
	ATOM	8380	OH2	WAT	W	198	20.419	65.482	7.650	1.00	0.00	O
	ATOM	8381	OH2	WAT	W	199	11.387	61.513	-18.591	1.00	0.00	O
	ATOM	8382	OH2	WAT	W	200	24.508	70.807	-8.820	1.00	0.00	O
	ATOM	8383	OH2	WAT	W	201	25.021	40.148	14.199	1.00	0.00	O
30	ATOM	8384	OH2	WAT	W	202	22.730	63.440	-33.177	1.00	0.00	O
	ATOM	8385	OH2	WAT	W	203	41.675	43.444	7.942	1.00	0.00	O
	ATOM	8386	OH2	WAT	W	204	21.031	51.927	47.241	1.00	0.00	O
	ATOM	8387	OH2	WAT	W	205	41.315	50.431	33.202	1.00	0.00	O
	ATOM	8388	OH2	WAT	W	206	45.964	52.942	-19.262	1.00	0.00	O
35	ATOM	8389	OH2	WAT	W	207	51.437	76.535	-40.973	1.00	0.00	O
	ATOM	8390	OH2	WAT	W	208	25.691	86.538	-31.936	1.00	0.00	O
	ATOM	8391	OH2	WAT	W	209	12.475	56.456	5.405	1.00	0.00	O
	ATOM	8392	OH2	WAT	W	210	22.531	56.979	-34.126	1.00	0.00	O
	ATOM	8393	OH2	WAT	W	211	43.855	72.890	-42.023	1.00	0.00	O
40	ATOM	8394	OH2	WAT	W	212	44.587	58.897	-15.991	1.00	0.00	O
	ATOM	8395	OH2	WAT	W	213	31.317	81.888	0.492	1.00	0.00	O
	ATOM	8396	OH2	WAT	W	214	51.998	56.511	-30.251	1.00	0.00	O
	ATOM	8397	OH2	WAT	W	215	17.284	70.213	-23.398	1.00	0.00	O
	ATOM	8398	OH2	WAT	W	216	37.672	47.143	29.765	1.00	0.00	O
45	ATOM	8399	OH2	WAT	W	217	49.760	55.193	-28.929	1.00	0.00	O
	ATOM	8400	OH2	WAT	W	218	36.216	79.446	-5.014	1.00	0.00	O
	ATOM	8401	OH2	WAT	W	219	62.263	62.760	25.718	1.00	0.00	O
	ATOM	8402	OH2	WAT	W	220	11.371	53.253	6.833	1.00	0.00	O
	ATOM	8403	OH2	WAT	W	221	13.906	60.932	-22.496	1.00	0.00	O
50	ATOM	8404	OH2	WAT	W	222	50.825	62.146	26.284	1.00	0.00	O
	ATOM	8405	OH2	WAT	W	223	68.567	79.131	-18.097	1.00	0.00	O
	ATOM	8406	OH2	WAT	W.	224	84.222	68.534	-17.389	1.00	0.00	O
	ATOM	8407	OH2	WAT	W	225	21.708	40.465	-8.858	1.00	0.00	O
	ATOM	8408	OH2	WAT	W	226	52.787	69.944	18.315	1.00	0.00	O
55	ATOM	8409	OH2	WAT	W	227	42.689	53.369	35.556	1.00	0.00	O
	ATOM	8410	OH2	WAT	W	228	70.589	52.247	-12.696	1.00	0.00	O
	ATOM	8411	OH2	WAT	W	229	34.684	70.515	13.167	1.00	0.00	O
	ATOM	8412	OH2	WAT	W	230	27.167	46.423	13.589	1.00	0.00	O
	ATOM	8413	OH2	WAT	W	231	14.456	49.790	19.863	1.00	0.00	O
60	ATOM	8414	OH2	WAT	W	232	49.685	73.595	-21.805	1.00	0.00	O
	ATOM	8415	OH2	WAT	W	233	48.689	44.406	-6.194	1.00	0.00	O

	ATOM	8416	OH2 WAT W 234	61.410	77.073	-39.603	1.00	0.00	O
	ATOM	8417	OH2 WAT W 235	22.884	78.730	-30.339	1.00	0.00	O
	ATOM	8418	OH2 WAT W 236	43.601	88.814	-38.504	1.00	0.00	O
	ATOM	8419	OH2 WAT W 237	35.756	77.733	-7.320	1.00	0.00	O
5	ATOM	8420	OH2 WAT W 238	24.910	68.451	21.795	1.00	0.00	O
	ATOM	8421	OH2 WAT W 239	68.065	49.290	-1.106	1.00	0.00	O
	ATOM	8422	OH2 WAT W 240	54.306	48.006	15.594	1.00	0.00	O
	ATOM	8423	OH2 WAT W 241	55.035	50.552	16.701	1.00	0.00	O
	ATOM	8424	OH2 WAT W 242	39.346	48.853	-32.773	1.00	0.00	O
10	ATOM	8425	OH2 WAT W 243	22.715	45.375	-13.470	1.00	0.00	O
	ATOM	8426	OH2 WAT W 244	67.041	55.438	0.923	1.00	0.00	O
	ATOM	8427	OH2 WAT W 245	47.938	44.041	-8.649	1.00	0.00	O
	ATOM	8428	OH2 WAT W 246	26.916	87.947	-23.675	1.00	0.00	O
	ATOM	8429	OH2 WAT W 247	18.920	48.654	37.727	1.00	0.00	O
15	ATOM	8430	OH2 WAT W 248	83.609	67.735	-22.899	1.00	0.00	O
	ATOM	8431	OH2 WAT W 249	43.071	59.942	-19.005	1.00	0.00	O
	ATOM	8432	OH2 WAT W 250	47.458	79.272	-40.359	1.00	0.00	O
	ATOM	8433	OH2 WAT W 251	8.628	57.772	-6.846	1.00	0.00	O
	ATOM	8434	OH2 WAT W 252	54.854	90.442	-23.490	1.00	0.00	O
20	ATOM	8435	OH2 WAT W 253	27.822	36.723	-19.686	1.00	0.00	O
	ATOM	8436	OH2 WAT W 254	72.038	58.835	-11.191	1.00	0.00	O
	ATOM	8437	OH2 WAT W 255	34.312	67.938	12.419	1.00	0.00	O
	ATOM	8438	OH2 WAT W 256	11.701	59.520	-4.996	1.00	0.00	O
	ATOM	8439	OH2 WAT W 257	23.555	46.185	-15.867	1.00	0.00	O
25	ATOM	8440	OH2 WAT W 258	50.165	70.949	-17.614	1.00	0.00	O
	ATOM	8441	OH2 WAT W 259	45.014	90.349	-25.370	1.00	0.00	O
	ATOM	8442	OH2 WAT W 260	16.031	72.424	-19.154	1.00	0.00	O
	ATOM	8443	OH2 WAT W 261	20.063	52.665	-24.366	1.00	0.00	O
	ATOM	8444	OH2 WAT W 262	59.526	76.634	-8.922	1.00	0.00	O
30	ATOM	8445	OH2 WAT W 263	66.985	60.106	-27.206	1.00	0.00	O
	ATOM	8446	OH2 WAT W 264	38.574	51.579	-29.892	1.00	0.00	O
	ATOM	8447	OH2 WAT W 265	40.352	83.002	-10.718	1.00	0.00	O
	ATOM	8448	OH2 WAT W 266	42.228	48.810	31.272	1.00	0.00	O
	ATOM	8449	OH2 WAT W 267	24.087	53.097	-6.112	1.00	0.00	O
35	ATOM	8450	OH2 WAT W 268	53.151	47.236	-24.936	1.00	0.00	O
	ATOM	8451	OH2 WAT W 269	32.606	89.327	-43.042	1.00	0.00	O
	ATOM	8452	OH2 WAT W 270	35.917	36.134	-4.644	1.00	0.00	O
	ATOM	8453	OH2 WAT W 271	70.120	83.240	-29.810	1.00	0.00	O
	ATOM	8454	OH2 WAT W 272	49.674	82.612	-43.733	1.00	0.00	O
40	ATOM	8455	OH2 WAT W 273	68.294	79.794	-34.772	1.00	0.00	O
	ATOM	8456	OH2 WAT W 274	29.285	46.894	37.041	1.00	0.00	O
	ATOM	8457	OH2 WAT W 275	18.501	70.060	4.192	1.00	0.00	O
	ATOM	8458	OH2 WAT W 276	14.130	68.377	-7.929	1.00	0.00	O
	ATOM	8459	OH2 WAT W 277	50.292	72.625	9.115	1.00	0.00	O
45	ATOM	8460	OH2 WAT W 278	39.681	75.872	-40.189	1.00	0.00	O
	ATOM	8461	OH2 WAT W 279	28.800	65.267	19.692	1.00	0.00	O
	ATOM	8462	OH2 WAT W 280	11.698	58.801	7.877	1.00	0.00	O
	ATOM	8463	OH2 WAT W 281	52.681	79.071	-17.318	1.00	0.00	O
	ATOM	8464	OH2 WAT W 282	18.546	65.169	-27.072	1.00	0.00	O
50	ATOM	8465	OH2 WAT W 283	44.658	79.503	-33.162	1.00	0.00	O
	ATOM	8466	OH2 WAT W 284	36.159	81.248	6.301	1.00	0.00	O
	ATOM	8467	OH2 WAT W 285	16.711	60.781	-28.274	1.00	0.00	O
	ATOM	8468	OH2 WAT W 286	29.549	87.473	-17.991	1.00	0.00	O
	ATOM	8469	OH2 WAT W 287	8.872	55.103	-6.123	1.00	0.00	O
55	ATOM	8470	OH2 WAT W 288	46.662	61.781	-25.948	1.00	0.00	O
	ATOM	8471	OH2 WAT W 289	42.935	82.350	-10.022	1.00	0.00	O
	ATOM	8472	OH2 WAT W 290	10.298	50.821	18.871	1.00	0.00	O
	ATOM	8473	OH2 WAT W 291	12.804	42.604	12.655	1.00	0.00	O
	ATOM	8474	OH2 WAT W 292	35.970	45.285	30.862	1.00	0.00	O
60	ATOM	8475	OH2 WAT W 293	15.720	75.427	-11.770	1.00	0.00	O
	ATOM	8476	OH2 WAT W 294	25.251	46.933	-20.830	1.00	0.00	O

ATOM	8477	OH2	WAT	W	295	56.981	65.103	24.147	1.00	0.00	O
ATOM	8478	OH2	WAT	W	296	38.675	94.386	-42.056	1.00	0.00	O
ATOM	8479	OH2	WAT	W	297	34.701	59.742	-34.921	1.00	0.00	O
ATOM	8480	OH2	WAT	W	298	32.942	41.340	-17.487	1.00	0.00	O
ATOM	8481	OH2	WAT	W	299	20.659	42.773	-7.510	1.00	0.00	O
ATOM	8482	OH2	WAT	W	300	19.164	76.984	4.901	1.00	0.00	O
ATOM	8483	OH2	WAT	W	301	43.374	80.845	4.959	1.00	0.00	O
ATOM	8484	OH2	WAT	W	302	32.892	85.489	-5.433	1.00	0.00	O
ATOM	8485	OH2	WAT	W	303	31.125	33.618	2.743	1.00	0.00	O
ATOM	8486	OH2	WAT	W	304	21.401	78.735	-1.300	1.00	0.00	O
ATOM	8487	OH2	WAT	W	305	55.248	59.205	4.018	1.00	0.00	O
ATOM	8488	OH2	WAT	W	306	13.472	62.549	-19.950	1.00	0.00	O
ATOM	8489	OH2	WAT	W	307	16.942	51.046	-19.243	1.00	0.00	O
ATOM	8490	OH2	WAT	W	308	14.306	63.006	-12.128	1.00	0.00	O
ATOM	8491	OH2	WAT	W	309	53.329	87.016	-21.261	1.00	0.00	O
ATOM	8492	OH2	WAT	W	310	70.847	49.607	-0.120	1.00	0.00	O
ATOM	8493	OH2	WAT	W	311	57.958	42.552	1.480	1.00	0.00	O
ATOM	8494	OH2	WAT	W	312	74.685	76.841	-14.216	1.00	0.00	O
ATOM	8495	OH2	WAT	W	313	24.865	83.255	-16.893	1.00	0.00	O
ATOM	8496	OH2	WAT	W	314	57.004	67.948	-35.397	1.00	0.00	O
ATOM	8497	OH2	WAT	W	315	48.910	50.855	-29.603	1.00	0.00	O
ATOM	8498	OH2	WAT	W	316	66.516	71.805	-6.758	1.00	0.00	O
ATOM	8499	OH2	WAT	W	317	28.750	93.957	-38.397	1.00	0.00	O
ATOM	8500	OH2	WAT	W	318	32.641	64.841	-10.056	1.00	0.00	O
ATOM	8501	OH2	WAT	W	319	13.390	51.126	-1.727	1.00	0.00	O
ATOM	8502	OH2	WAT	W	320	39.218	49.401	30.125	1.00	0.00	O
ATOM	8503	OH2	WAT	W	321	67.809	58.814	-23.999	1.00	0.00	O
ATOM	8504	OH2	WAT	W	322	20.711	59.173	-34.513	1.00	0.00	O
ATOM	8505	OH2	WAT	W	323	37.626	75.871	-42.367	1.00	0.00	O
ATOM	8506	OH2	WAT	W	324	31.743	51.398	-35.443	1.00	0.00	O
ATOM	8507	OH2	WAT	W	325	12.990	71.425	-0.518	1.00	0.00	O
ATOM	8508	OH2	WAT	W	326	36.948	41.131	-24.831	1.00	0.00	O
ATOM	8509	OH2	WAT	W	327	19.231	42.667	-2.519	1.00	0.00	O
ATOM	8510	OH2	WAT	W	328	49.940	44.205	7.115	1.00	0.00	O
ATOM	8511	OH2	WAT	W	329	37.339	45.566	-25.533	1.00	0.00	O
ATOM	8512	OH2	WAT	W	330	75.324	74.286	-19.611	1.00	0.00	O
ATOM	8513	OH2	WAT	W	331	50.283	61.339	-31.172	1.00	0.00	O
ATOM	8514	OH2	WAT	W	332	42.968	56.925	-31.533	1.00	0.00	O
ATOM	8515	OH2	WAT	W	333	13.231	68.986	0.966	1.00	0.00	O
ATOM	8516	OH2	WAT	W	334	40.964	83.065	-31.335	1.00	0.00	O
ATOM	8517	OH2	WAT	W	335	26.935	52.485	22.429	1.00	0.00	O
ATOM	8518	OH2	WAT	W	336	12.535	66.558	-9.411	1.00	0.00	O
ATOM	8519	OH2	WAT	W	337	42.574	39.474	-15.819	1.00	0.00	O
ATOM	8520	OH2	WAT	W	338	48.063	48.452	16.338	1.00	0.00	O
ATOM	8521	OH2	WAT	W	339	11.396	46.881	17.803	1.00	0.00	O
ATOM	8522	OH2	WAT	W	340	16.456	67.949	-19.966	1.00	0.00	O
ATOM	8523	OH2	WAT	W	341	5.127	52.960	-5.987	1.00	0.00	O
ATOM	8524	OH2	WAT	W	342	56.366	91.396	-25.674	1.00	0.00	O
ATOM	8525	OH2	WAT	W	343	39.144	83.533	-27.276	1.00	0.00	O
ATOM	8526	OH2	WAT	W	344	60.906	57.044	15.729	1.00	0.00	O
ATOM	8527	OH2	WAT	W	345	13.476	51.618	21.701	1.00	0.00	O
ATOM	8528	OH2	WAT	W	346	43.475	94.139	-37.674	1.00	0.00	O
ATOM	8529	OH2	WAT	W	347	28.005	35.390	-6.921	1.00	0.00	O
ATOM	8530	OH2	WAT	W	348	80.217	64.249	-21.456	1.00	0.00	O
ATOM	8531	OH2	WAT	W	349	51.582	45.241	9.734	1.00	0.00	O
ATOM	8532	OH2	WAT	W	350	21.442	46.768	-17.471	1.00	0.00	O
ATOM	8533	OH2	WAT	W	351	47.375	71.994	-20.206	1.00	0.00	O
ATOM	8534	OH2	WAT	W	352	21.529	86.223	-30.867	1.00	0.00	O
ATOM	8535	OH2	WAT	W	353	33.020	67.074	21.359	1.00	0.00	O
ATOM	8536	OH2	WAT	W	354	14.661	62.189	-14.529	1.00	0.00	O
ATOM	8537	OH2	WAT	W	355	50.340	73.832	-25.135	1.00	0.00	O

	ATOM	8538	OH2	WAT	W	356	41.981	79.529	-23.664	1.00	0.00	O
	ATOM	8539	OH2	WAT	W	357	39.972	45.436	25.468	1.00	0.00	O
	ATOM	8540	OH2	WAT	W	358	50.969	76.614	14.421	1.00	0.00	O
	ATOM	8541	OH2	WAT	W	359	38.542	45.259	-33.621	1.00	0.00	O
5	ATOM	8542	OH2	WAT	W	360	61.488	54.293	-28.837	1.00	0.00	O
	ATOM	8543	OH2	WAT	W	361	53.752	46.861	23.465	1.00	0.00	O
	ATOM	8544	OH2	WAT	W	362	57.003	43.245	-20.158	1.00	0.00	O
	ATOM	8545	OH2	WAT	W	363	67.626	54.901	-18.285	1.00	0.00	O
	ATOM	8546	OH2	WAT	W	364	42.418	80.223	-31.622	1.00	0.00	O
10	ATOM	8547	OH2	WAT	W	365	29.083	62.415	-39.783	1.00	0.00	O
	ATOM	8548	OH2	WAT	W	366	26.860	61.813	10.730	1.00	0.00	O
	ATOM	8549	OH2	WAT	W	367	45.805	45.098	22.818	1.00	0.00	O
	ATOM	8550	OH2	WAT	W	368	35.137	51.286	35.769	1.00	0.00	O
	ATOM	8551	OH2	WAT	W	369	57.651	62.471	7.869	1.00	0.00	O
15	ATOM	8552	OH2	WAT	W	370	25.333	33.637	13.177	1.00	0.00	O
	ATOM	8553	OH2	WAT	W	371	27.654	59.510	8.691	1.00	0.00	O
	ATOM	8554	OH2	WAT	W	372	42.826	94.774	-30.165	1.00	0.00	O
	ATOM	8555	OH2	WAT	W	373	13.853	58.151	-1.424	1.00	0.00	O
	ATOM	8556	OH2	WAT	W	374	49.192	76.578	5.501	1.00	0.00	O
20	ATOM	8557	OH2	WAT	W	375	27.925	67.696	28.209	1.00	0.00	O
	ATOM	8558	OH2	WAT	W	376	41.952	39.320	16.716	1.00	0.00	O
	ATOM	8559	OH2	WAT	W	377	58.773	46.532	-1.499	1.00	0.00	O
	ATOM	8560	OH2	WAT	W	378	73.326	76.954	-18.532	1.00	0.00	O
	ATOM	8561	OH2	WAT	W	379	19.656	39.469	17.560	1.00	0.00	O
25	ATOM	8562	OH2	WAT	W	380	39.710	59.119	-18.070	1.00	0.00	O
	ATOM	8563	OH2	WAT	W	381	28.056	47.248	-31.460	1.00	0.00	O
	ATOM	8564	OH2	WAT	W	382	68.576	47.066	-16.559	1.00	0.00	O
	ATOM	8565	OH2	WAT	W	383	66.502	62.821	-13.285	1.00	0.00	O
	ATOM	8566	OH2	WAT	W	384	26.551	75.251	2.041	1.00	0.00	O
30	ATOM	8567	OH2	WAT	W	385	39.989	39.143	9.181	1.00	0.00	O
	ATOM	8568	OH2	WAT	W	386	21.546	47.172	39.121	1.00	0.00	O
	ATOM	8569	OH2	WAT	W	387	42.166	75.026	-41.390	1.00	0.00	O
	ATOM	8570	OH2	WAT	W	388	14.668	55.649	27.168	1.00	0.00	O
	ATOM	8571	OH2	WAT	W	389	28.635	59.881	-39.092	1.00	0.00	O
35	ATOM	8572	OH2	WAT	W	390	39.198	43.093	22.518	1.00	0.00	O
	ATOM	8573	OH2	WAT	W	391	16.373	52.883	-22.472	1.00	0.00	O
	ATOM	8574	OH2	WAT	W	392	27.249	35.030	29.245	1.00	0.00	O
	ATOM	8575	OH2	WAT	W	393	17.213	80.907	-7.458	1.00	0.00	O
	ATOM	8576	OH2	WAT	W	394	48.192	41.940	3.626	1.00	0.00	O
40	ATOM	8577	OH2	WAT	W	395	73.444	51.506	-11.329	1.00	0.00	O
	ATOM	8578	OH2	WAT	W	396	58.713	53.858	-22.201	1.00	0.00	O
	ATOM	8579	OH2	WAT	W	397	47.585	79.681	-18.583	1.00	0.00	O
	ATOM	8580	OH2	WAT	W	398	40.821	96.690	-37.270	1.00	0.00	O
	ATOM	8581	OH2	WAT	W	399	61.090	63.873	15.190	1.00	0.00	O
45	ATOM	8582	OH2	WAT	W	400	59.266	37.758	-15.399	1.00	0.00	O
	ATOM	8583	OH2	WAT	W	401	21.130	30.440	17.589	1.00	0.00	O
	ATOM	8584	OH2	WAT	W	402	46.166	97.283	-43.899	1.00	0.00	O
	ATOM	8585	OH2	WAT	W	403	21.601	86.388	-19.084	1.00	0.00	O
	ATOM	8586	OH2	WAT	W	404	20.559	68.460	22.165	1.00	0.00	O
50	ATOM	8587	OH2	WAT	W	405	45.429	70.094	-18.226	1.00	0.00	O
	ATOM	8588	OH2	WAT	W	406	17.460	70.834	6.628	1.00	0.00	O
	ATOM	8589	OH2	WAT	W	407	51.178	52.977	-28.541	1.00	0.00	O
	ATOM	8590	OH2	WAT	W	408	19.143	83.560	-25.728	1.00	0.00	O
	ATOM	8591	OH2	WAT	W	409	40.017	86.342	-21.820	1.00	0.00	O
55	ATOM	8592	OH2	WAT	W	410	22.588	66.313	29.105	1.00	0.00	O
	ATOM	8593	OH2	WAT	W	411	24.924	59.432	-36.321	1.00	0.00	O
	ATOM	8594	OH2	WAT	W	412	58.534	34.944	-5.958	1.00	0.00	O
	ATOM	8595	OH2	WAT	W	413	50.571	79.325	-15.679	1.00	0.00	O
	ATOM	8596	OH2	WAT	W	414	17.547	68.712	24.284	1.00	0.00	O
60	ATOM	8597	OH2	WAT	W	415	56.497	93.003	-29.406	1.00	0.00	O
	ATOM	8598	OH2	WAT	W	416	52.563	73.376	4.325	1.00	0.00	O

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      ATOM   8599  OH2 WAT W 417     21.955  36.827    0.123  1.00  0.00           O
      ATOM   8600  OH2 WAT W 418     40.057  79.947  -28.024  1.00  0.00           O
      ATOM   8601  OH2 WAT W 419     10.491  77.324   -5.020  1.00  0.00           O
      ATOM   8602  OH2 WAT W 420     26.174  64.613    8.454  1.00  0.00           O
   5  ATOM   8603  OH2 WAT W 421     72.887  64.089  -21.074  1.00  0.00           O
      ATOM   8604  OH2 WAT W 422     79.850  74.111  -17.731  1.00  0.00           O
      ATOM   8605  OH2 WAT W 423     66.746  74.578   -4.415  1.00  0.00           O
      ATOM   8606  OH2 WAT W 424     48.121  64.471  -28.375  1.00  0.00           O
      ATOM   8607  OH2 WAT W 425     42.562  39.570   -1.498  1.00  0.00           O
  10  ATOM   8608  OH2 WAT W 426     63.060  67.958  -31.848  1.00  0.00           O
      ATOM   8609  OH2 WAT W 427     24.133  42.119  -14.621  1.00  0.00           O
      ATOM   8610  OH2 WAT W 428     27.601  50.987   13.315  1.00  0.00           O
      ATOM   8611  OH2 WAT W 429     38.651  83.736  -39.775  1.00  0.00           O
      ATOM   8612  OH2 WAT W 430     76.639  74.331  -26.800  1.00  0.00           O
  15  ATOM   8613  OH2 WAT W 431     28.832  72.523   22.366  1.00  0.00           O
      ATOM   8614  OH2 WAT W 432     20.710  55.297  -35.830  1.00  0.00           O
      ATOM   8615  OH2 WAT W 433     24.127  57.300   38.838  1.00  0.00           O
      ATOM   8616  OH2 WAT W 434     38.116  49.320  -10.479  1.00  0.00           O
      ATOM   8617  OH2 WAT W 435     23.431  82.846  -40.701  1.00  0.00           O
  20  ATOM   8618  OH2 WAT W 436     17.153  67.203  -26.037  1.00  0.00           O
      ATOM   8619  OH2 WAT W 437     66.929  84.509  -22.081  1.00  0.00           O
      ATOM   8620  OH2 WAT W 438     52.699  65.054  -28.059  1.00  0.00           O
      ATOM   8621  OH2 WAT W 439     20.671  68.507    8.683  1.00  0.00           O
      ATOM   8622  OH2 WAT W 440     61.541  63.964  -30.852  1.00  0.00           O
  25  ATOM   8623  OH2 WAT W 441      9.820  60.220    6.782  1.00  0.00           O
      ATOM   8624  OH2 WAT W 442     31.578  86.047  -19.897  1.00  0.00           O
      ATOM   8625  OH2 WAT W 443     28.116  88.069  -41.601  1.00  0.00           O
      ATOM   8626  OH2 WAT W 444     44.813  82.813  -30.442  1.00  0.00           O
      ATOM   8627  OH2 WAT W 445     59.411  67.316  -34.553  1.00  0.00           O
  30  ATOM   8628  OH2 WAT W 446     70.281  56.737  -12.641  1.00  0.00           O
      ATOM   8629  OH2 WAT W 447     46.133  46.111   16.197  1.00  0.00           O
      ATOM   8630  OH2 WAT W 448     46.022  82.991  -25.291  1.00  0.00           O
      ATOM   8631  OH2 WAT W 449     56.919  87.865  -19.906  1.00  0.00           O
      ATOM   8632  OH2 WAT W 450     73.671  74.275   -5.837  1.00  0.00           O
  35  ATOM   8633  OH2 WAT W 451     19.780  43.342   33.818  1.00  0.00           O
      ATOM   8634  OH2 WAT W 452     79.363  51.263   -0.742  1.00  0.00           O
      ATOM   8635  OH2 WAT W 453     65.997  45.465   -3.356  1.00  0.00           O
      ATOM   8636  OH2 WAT W 454     48.283  78.082   -9.662  1.00  0.00           O
      ATOM   8637  OH2 WAT W 455     30.091  34.272   -1.319  1.00  0.00           O
  40  ATOM   8638  OH2 WAT W 456     16.243  75.141  -24.079  1.00  0.00           O
      ATOM   8639  OH2 WAT W 457     17.563  39.586   35.890  1.00  0.00           O
      ATOM   8640  OH2 WAT W 458     22.610  31.267   29.293  1.00  0.00           O
      ATOM   8641  OH2 WAT W 459     33.437  84.502  -18.287  1.00  0.00           O
      ATOM   8642  OH2 WAT W 460     41.281  95.077  -39.430  1.00  0.00           O
  45  ATOM   8643  OH2 WAT W 461     44.192  83.798  -27.708  1.00  0.00           O
      ATOM   8644  OH2 WAT W 462     30.849  57.457    4.483  1.00  0.00           O
      ATOM   8645  OH2 WAT W 463     65.863  66.367   -0.404  1.00  0.00           O
      ATOM   8646  OH2 WAT W 464     46.505  68.680   26.433  1.00  0.00           O
      ATOM   8647  OH2 WAT W 465     70.068  61.945  -20.523  1.00  0.00           O
  50  ATOM   8648  OH2 WAT W 466     23.627  91.160  -25.962  1.00  0.00           O
      ATOM   8649  OH2 WAT W 467     25.303  71.234   22.351  1.00  0.00           O
      ATOM   8650  OH2 WAT W 468     13.916  69.555   26.531  1.00  0.00           O
      ATOM   8651  OH2 WAT W 469     62.187  80.969  -19.167  1.00  0.00           O
      ATOM   8652  OH2 WAT W 470     27.688  47.850   45.907  1.00  0.00           O
  55  ATOM   8653  OH2 WAT W 471     24.867  34.296    0.230  1.00  0.00           O
      ATOM   8654  OH2 WAT W 472     57.552  69.077   13.347  1.00  0.00           O
      ATOM   8655  OH2 WAT W 473      7.919  48.004   11.809  1.00  0.00           O
      ATOM   8656  OH2 WAT W 474     71.345  59.933    0.846  1.00  0.00           O
      ATOM   8657  OH2 WAT W 475     67.625  88.259  -23.332  1.00  0.00           O
  60  ATOM   8658  OH2 WAT W 476     12.293  75.293  -13.586  1.00  0.00           O
      ATOM   8659  OH2 WAT W 477     28.034  52.152   42.304  1.00  0.00           O
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ATOM	8660	OH2 WAT W 478	22.101	62.991	33.579	1.00	0.00	O
ATOM	8661	OH2 WAT W 479	59.350	67.017	-26.349	1.00	0.00	O
ATOM	8662	OH2 WAT W 480	34.153	87.410	-10.585	1.00	0.00	O
ATOM	8663	OH2 WAT W 481	30.242	36.569	29.051	1.00	0.00	O
ATOM	8664	OH2 WAT W 482	8.630	49.745	5.592	1.00	0.00	O
ATOM	8665	OH2 WAT W 483	41.971	67.468	29.311	1.00	0.00	O
ATOM	8666	OH2 WAT W 484	72.488	75.946	-27.178	1.00	0.00	O
ATOM	8667	OH2 WAT W 485	8.808	44.630	12.847	1.00	0.00	O
ATOM	8668	OH2 WAT W 486	71.066	43.252	-15.447	1.00	0.00	O
ATOM	8669	OH2 WAT W 487	41.610	44.823	-24.420	1.00	0.00	O
ATOM	8670	OH2 WAT W 488	39.942	66.977	31.394	1.00	0.00	O
ATOM	8671	OH2 WAT W 489	53.306	52.736	26.224	1.00	0.00	O
ATOM	8672	OH2 WAT W 490	26.040	44.611	-27.019	1.00	0.00	O
ATOM	8673	OH2 WAT W 491	19.640	52.648	-27.164	1.00	0.00	O
ATOM	8674	OH2 WAT W 492	71.088	95.502	-34.983	1.00	0.00	O
ATOM	8675	OH2 WAT W 493	48.006	64.627	-25.755	1.00	0.00	O
ATOM	8676	OH2 WAT W 494	44.643	64.544	-35.180	1.00	0.00	O
ATOM	8677	OH2 WAT W 495	17.848	53.127	35.582	1.00	0.00	O
ATOM	8678	OH2 WAT W 496	83.559	70.263	-20.332	1.00	0.00	O
ATOM	8679	OH2 WAT W 497	43.889	79.656	-42.656	1.00	0.00	O
ATOM	8680	OH2 WAT W 498	22.659	62.756	16.175	1.00	0.00	O
ATOM	8681	OH2 WAT W 499	45.784	79.442	-8.085	1.00	0.00	O
ATOM	8682	OH2 WAT W 500	26.627	88.208	-4.106	1.00	0.00	O
ATOM	8683	OH2 WAT W 501	38.549	42.119	-22.265	1.00	0.00	O
ATOM	8684	OH2 WAT W 502	36.969	29.333	12.945	1.00	0.00	O
ATOM	8685	OH2 WAT W 503	20.361	65.667	27.146	1.00	0.00	O
ATOM	8686	OH2 WAT W 504	6.748	59.445	2.879	1.00	0.00	O
ATOM	8687	OH2 WAT W 505	61.176	77.604	-12.987	1.00	0.00	O
ATOM	8688	OH2 WAT W 506	28.054	49.328	38.513	1.00	0.00	O
ATOM	8689	OH2 WAT W 507	29.119	41.162	-25.731	1.00	0.00	O
ATOM	8690	OH2 WAT W 508	19.438	67.582	-2.809	1.00	0.00	O
ATOM	8691	OH2 WAT W 509	43.444	41.879	-7.624	1.00	0.00	O
ATOM	8692	OH2 WAT W 510	48.772	55.128	-22.658	1.00	0.00	O
ATOM	8693	OH2 WAT W 511	26.320	81.968	-3.668	1.00	0.00	O
ATOM	8694	OH2 WAT W 512	35.820	38.968	-16.233	1.00	0.00	O
ATOM	8695	OH2 WAT W 513	58.609	51.285	22.212	1.00	0.00	O
ATOM	8696	OH2 WAT W 514	54.001	45.745	4.789	1.00	0.00	O
ATOM	8697	OH2 WAT W 515	46.519	80.472	-42.691	1.00	0.00	O
ATOM	8698	OH2 WAT W 516	71.771	84.685	-19.911	1.00	0.00	O
ATOM	8699	OH2 WAT W 517	61.087	67.591	-36.581	1.00	0.00	O
ATOM	8700	OH2 WAT W 518	38.313	31.520	16.740	1.00	0.00	O
ATOM	8701	OH2 WAT W 519	58.354	34.922	-12.186	1.00	0.00	O
ATOM	8702	OH2 WAT W 520	21.065	79.730	-23.655	1.00	0.00	O
ATOM	8703	OH2 WAT W 521	51.271	71.537	-20.143	1.00	0.00	O
ATOM	8704	OH2 WAT W 522	32.007	85.367	-8.663	1.00	0.00	O
ATOM	8705	OH2 WAT W 523	21.559	29.241	27.796	1.00	0.00	O
ATOM	8706	OH2 WAT W 524	21.899	87.695	-6.948	1.00	0.00	O
ATOM	8707	OH2 WAT W 525	31.622	57.574	37.384	1.00	0.00	O
ATOM	8708	OH2 WAT W 526	17.396	81.625	-17.128	1.00	0.00	O
ATOM	8709	OH2 WAT W 527	51.982	59.266	6.190	1.00	0.00	O
ATOM	8710	OH2 WAT W 528	22.034	80.360	-35.984	1.00	0.00	O
ATOM	8711	OH2 WAT W 529	25.516	74.205	8.628	1.00	0.00	O
ATOM	8712	OH2 WAT W 530	21.692	80.084	5.351	1.00	0.00	O
ATOM	8713	OH2 WAT W 531	48.615	94.243	-37.207	1.00	0.00	O
ATOM	8714	OH2 WAT W 532	39.879	38.867	-3.565	1.00	0.00	O
ATOM	8715	OH2 WAT W 533	39.730	96.389	-28.114	1.00	0.00	O
ATOM	8716	OH2 WAT W 534	36.679	35.119	-15.776	1.00	0.00	O
ATOM	8717	OH2 WAT W 535	34.980	45.884	33.331	1.00	0.00	O
ATOM	8718	OH2 WAT W 536	55.738	78.083	-1.633	1.00	0.00	O
ATOM	8719	OH2 WAT W 537	69.975	62.220	-0.091	1.00	0.00	O
ATOM	8720	OH2 WAT W 538	46.089	74.493	22.711	1.00	0.00	O

ATOM	8721	OH2	WAT	W	539	48.479	46.074	-23.173	1.00	0.00	O
ATOM	8722	OH2	WAT	W	540	60.426	92.218	-28.568	1.00	0.00	O
ATOM	8723	OH2	WAT	W	541	37.691	62.372	35.386	1.00	0.00	O
ATOM	8724	OH2	WAT	W	542	29.219	63.275	-37.448	1.00	0.00	O
ATOM	8725	OH2	WAT	W	543	61.269	48.104	-31.683	1.00	0.00	O
ATOM	8726	OH2	WAT	W	544	61.987	83.540	-38.118	1.00	0.00	O
ATOM	8727	OH2	WAT	W	545	62.916	42.910	-20.939	1.00	0.00	O
ATOM	8728	OH2	WAT	W	546	53.462	44.400	22.714	1.00	0.00	O
ATOM	8729	OH2	WAT	W	547	30.820	34.783	-9.453	1.00	0.00	O
ATOM	8730	OH2	WAT	W	548	29.478	31.624	21.760	1.00	0.00	O
ATOM	8731	OH2	WAT	W	549	78.634	69.005	-12.213	1.00	0.00	O
ATOM	8732	OH2	WAT	W	550	31.453	69.262	-45.544	1.00	0.00	O
ATOM	8733	OH2	WAT	W	551	73.440	82.530	-21.355	1.00	0.00	O
ATOM	8734	OH2	WAT	W	552	47.357	71.312	-23.900	1.00	0.00	O
ATOM	8735	OH2	WAT	W	553	20.487	38.004	12.047	1.00	0.00	O
ATOM	8736	OH2	WAT	W	554	35.053	95.226	-32.231	1.00	0.00	O
ATOM	8737	OH2	WAT	W	555	17.080	41.539	9.158	1.00	0.00	O
ATOM	8738	OH2	WAT	W	556	20.621	80.362	-33.678	1.00	0.00	O
ATOM	8739	OH2	WAT	W	557	49.081	92.026	-24.071	1.00	0.00	O
ATOM	8740	OH2	WAT	W	558	43.730	44.890	19.299	1.00	0.00	O
ATOM	8741	OH2	WAT	W	559	21.202	35.666	-5.127	1.00	0.00	O
ATOM	8742	OH2	WAT	W	560	65.011	88.072	-24.218	1.00	0.00	O
ATOM	8743	OH2	WAT	W	561	46.925	53.987	-21.419	1.00	0.00	O
ATOM	8744	OH2	WAT	W	562	71.377	63.278	-27.101	1.00	0.00	O
ATOM	8745	OH2	WAT	W	563	20.022	35.601	25.719	1.00	0.00	O
ATOM	8746	OH2	WAT	W	564	59.362	87.224	-45.669	1.00	0.00	O
ATOM	8747	OH2	WAT	W	565	51.846	34.237	-7.781	1.00	0.00	O
ATOM	8748	OH2	WAT	W	566	56.174	79.375	-15.045	1.00	0.00	O
ATOM	8749	OH2	WAT	W	567	28.897	70.037	-39.456	1.00	0.00	O
ATOM	8750	OH2	WAT	W	568	45.132	83.415	-43.264	1.00	0.00	O
ATOM	8751	OH2	WAT	W	569	29.704	81.723	-42.811	1.00	0.00	O
ATOM	8752	OH2	WAT	W	570	28.566	90.812	-42.631	1.00	0.00	O
ATOM	8753	OH2	WAT	W	571	19.650	84.825	-28.456	1.00	0.00	O
ATOM	8754	OH2	WAT	W	572	37.818	97.411	-30.646	1.00	0.00	O
ATOM	8755	OH2	WAT	W	573	40.603	44.569	-31.615	1.00	0.00	O
ATOM	8756	OH2	WAT	W	574	21.065	41.634	35.090	1.00	0.00	O
ATOM	8757	OH2	WAT	W	575	39.341	30.547	13.180	1.00	0.00	O
ATOM	8758	OH2	WAT	W	576	62.232	85.898	-23.043	1.00	0.00	O
ATOM	8759	OH2	WAT	W	577	31.093	68.494	14.062	1.00	0.00	O
ATOM	8760	OH2	WAT	W	578	28.012	67.466	33.703	1.00	0.00	O
ATOM	8761	OH2	WAT	W	579	14.919	63.617	-25.796	1.00	0.00	O
ATOM	8762	OH2	WAT	W	580	29.777	72.345	12.305	1.00	0.00	O
ATOM	8763	OH2	WAT	W	581	61.150	93.195	-38.571	1.00	0.00	O
ATOM	8764	OH2	WAT	W	582	59.323	62.309	25.744	1.00	0.00	O
ATOM	8765	OH2	WAT	W	583	51.213	79.510	-1.669	1.00	0.00	O
ATOM	8766	OH2	WAT	W	584	21.364	60.549	26.762	1.00	0.00	O
ATOM	8767	OH2	WAT	W	585	59.433	91.512	-35.102	1.00	0.00	O
ATOM	8768	OH2	WAT	W	586	24.269	60.848	35.990	1.00	0.00	O
ATOM	8769	OH2	WAT	W	587	11.450	62.002	0.100	1.00	0.00	O
ATOM	8770	OH2	WAT	W	588	55.171	80.702	-19.348	1.00	0.00	O
ATOM	8771	OH2	WAT	W	589	16.962	74.562	-28.650	1.00	0.00	O
ATOM	8772	OH2	WAT	W	590	40.725	40.685	-21.417	1.00	0.00	O
ATOM	8773	OH2	WAT	W	591	28.192	68.552	-46.100	1.00	0.00	O
ATOM	8774	OH2	WAT	W	592	40.020	35.502	11.339	1.00	0.00	O
ATOM	8775	OH2	WAT	W	593	19.044	80.664	-11.850	1.00	0.00	O
ATOM	8776	OH2	WAT	W	594	64.962	80.057	-8.837	1.00	0.00	O
ATOM	8777	OH2	WAT	W	595	72.971	43.614	-12.173	1.00	0.00	O
ATOM	8778	OH2	WAT	W	596	12.870	74.892	-19.225	1.00	0.00	O
ATOM	8779	OH2	WAT	W	597	57.091	75.709	-2.819	1.00	0.00	O
ATOM	8780	OH2	WAT	W	598	20.941	58.551	37.845	1.00	0.00	O
ATOM	8781	OH2	WAT	W	599	50.724	77.524	2.143	1.00	0.00	O

ATOM	8782	OH2	WAT	W	600	28.397	45.580	40.744	1.00	0.00	O
ATOM	8783	OH2	WAT	W	601	23.038	36.989	13.347	1.00	0.00	O
ATOM	8784	OH2	WAT	W	602	33.273	39.694	-19.124	1.00	0.00	O
ATOM	8785	OH2	WAT	W	603	33.739	49.423	-15.040	1.00	0.00	O
ATOM	8786	OH2	WAT	W	604	29.464	88.981	-26.114	1.00	0.00	O
ATOM	8787	OH2	WAT	W	605	37.103	33.836	5.763	1.00	0.00	O
ATOM	8788	OH2	WAT	W	606	71.868	62.856	-18.090	1.00	0.00	O
ATOM	8789	OH2	WAT	W	607	34.298	70.277	-44.850	1.00	0.00	O
ATOM	8790	OH2	WAT	W	608	64.246	77.356	0.371	1.00	0.00	O
ATOM	8791	OH2	WAT	W	609	35.765	55.988	8.553	1.00	0.00	O
ATOM	8792	OH2	WAT	W	610	30.746	51.320	39.591	1.00	0.00	O
ATOM	8793	OH2	WAT	W	611	54.247	58.047	-13.809	1.00	0.00	O
ATOM	8794	OH2	WAT	W	612	21.033	54.593	46.942	1.00	0.00	O
ATOM	8795	OH2	WAT	W	613	14.544	50.681	0.941	1.00	0.00	O
ATOM	8796	OH2	WAT	W	614	25.361	91.705	-32.972	1.00	0.00	O
ATOM	8797	OH2	WAT	W	615	73.166	71.394	-29.179	1.00	0.00	O
ATOM	8798	OH2	WAT	W	616	55.692	38.636	0.977	1.00	0.00	O
ATOM	8799	OH2	WAT	W	617	37.473	84.217	4.454	1.00	0.00	O
ATOM	8800	OH2	WAT	W	618	45.668	55.250	10.276	1.00	0.00	O
ATOM	8801	OH2	WAT	W	619	67.054	81.349	-11.203	1.00	0.00	O
ATOM	8802	OH2	WAT	W	620	40.531	89.320	-19.530	1.00	0.00	O
ATOM	8803	OH2	WAT	W	621	43.788	56.725	33.520	1.00	0.00	O
ATOM	8804	OH2	WAT	W	622	56.284	50.275	-30.442	1.00	0.00	O
ATOM	8805	OH2	WAT	W	623	63.547	57.533	26.047	1.00	0.00	O
ATOM	8806	OH2	WAT	W	624	62.152	48.417	-20.968	1.00	0.00	O
ATOM	8807	OH2	WAT	W	625	62.865	59.678	-22.138	1.00	0.00	O
ATOM	8808	OH2	WAT	W	626	39.807	77.878	13.615	1.00	0.00	O
ATOM	8809	OH2	WAT	W	627	26.705	92.002	-27.583	1.00	0.00	O
ATOM	8810	OH2	WAT	W	628	13.511	70.306	-9.673	1.00	0.00	O
ATOM	8811	OH2	WAT	W	629	60.650	79.062	-41.480	1.00	0.00	O
ATOM	8812	OH2	WAT	W	630	39.200	43.459	26.617	1.00	0.00	O
ATOM	8813	OH2	WAT	W	631	12.021	71.041	2.447	1.00	0.00	O
ATOM	8814	OH2	WAT	W	632	36.432	62.728	-38.343	1.00	0.00	O
ATOM	8815	OH2	WAT	W	633	76.004	83.239	-25.233	1.00	0.00	O
ATOM	8816	OH2	WAT	W	634	37.691	80.755	-0.580	1.00	0.00	O
ATOM	8817	OH2	WAT	W	635	47.388	53.701	35.727	1.00	0.00	O
ATOM	8818	OH2	WAT	W	636	48.724	97.982	-33.771	1.00	0.00	O
ATOM	8819	OH2	WAT	W	637	63.284	75.071	-45.697	1.00	0.00	O
ATOM	8820	OH2	WAT	W	638	60.036	71.911	0.281	1.00	0.00	O
ATOM	8821	OH2	WAT	W	639	40.994	48.115	-29.333	1.00	0.00	O
ATOM	8822	OH2	WAT	W	640	55.304	40.303	-12.656	1.00	0.00	O
ATOM	8823	OH2	WAT	W	641	75.278	84.083	-22.808	1.00	0.00	O
ATOM	8824	OH2	WAT	W	642	63.429	52.129	-0.436	1.00	0.00	O
ATOM	8825	OH2	WAT	W	643	37.171	36.676	19.220	1.00	0.00	O
ATOM	8826	OH2	WAT	W	644	57.798	36.026	-2.366	1.00	0.00	O
ATOM	8827	OH2	WAT	W	645	23.216	48.896	-36.160	1.00	0.00	O
ATOM	8828	OH2	WAT	W	646	18.051	71.467	-29.826	1.00	0.00	O
ATOM	8829	OH2	WAT	W	647	30.822	40.388	38.149	1.00	0.00	O
ATOM	8830	OH2	WAT	W	648	27.605	50.308	23.225	1.00	0.00	O
ATOM	8831	OH2	WAT	W	649	30.597	47.814	40.348	1.00	0.00	O
ATOM	8832	OH2	WAT	W	650	59.960	52.971	-30.664	1.00	0.00	O
ATOM	8833	OH2	WAT	W	651	44.799	40.674	13.217	1.00	0.00	O
ATOM	8834	OH2	WAT	W	652	34.017	47.888	36.072	1.00	0.00	O
ATOM	8835	OH2	WAT	W	653	27.187	82.319	3.172	1.00	0.00	O
ATOM	8836	OH2	WAT	W	654	58.515	92.353	-42.111	1.00	0.00	O
ATOM	8837	OH2	WAT	W	655	49.126	52.288	-37.796	1.00	0.00	O
ATOM	8838	OH2	WAT	W	656	53.313	71.104	-16.923	1.00	0.00	O
ATOM	8839	OH2	WAT	W	657	57.589	62.825	-15.540	1.00	0.00	O
ATOM	8840	OH2	WAT	W	658	28.352	44.446	-29.609	1.00	0.00	O
ATOM	8841	OH2	WAT	W	659	49.081	49.407	-38.302	1.00	0.00	O
ATOM	8842	OH2	WAT	W	660	35.575	77.711	-43.096	1.00	0.00	O

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ATOM  8843  OH2 WAT W 661    9.831  58.785  17.833  1.00  0.00        O
ATOM  8844  OH2 WAT W 662   61.038  45.561  -3.765  1.00  0.00        O
ATOM  8845  OH2 WAT W 663   65.482  78.986  -5.781  1.00  0.00        O
ATOM  8846  OH2 WAT W 664    7.036  58.315  14.701  1.00  0.00        O
ATOM  8847  OH2 WAT W 665   49.623  50.858  32.493  1.00  0.00        O
ATOM  8848  OH2 WAT W 666   18.541  62.487  22.934  1.00  0.00        O
ATOM  8849  OH2 WAT W 667   30.423  34.190  21.123  1.00  0.00        O
ATOM  8850  OH2 WAT W 668   17.479  45.675 -14.263  1.00  0.00        O
ATOM  8851  OH2 WAT W 669   28.774  55.333  39.968  1.00  0.00        O
ATOM  8852  OH2 WAT W 670   50.805  60.075  -8.931  1.00  0.00        O
ATOM  8853  OH2 WAT W 671   43.865  63.225 -28.668  1.00  0.00        O
ATOM  8854  OH2 WAT W 672   38.137  82.016 -31.368  1.00  0.00        O
ATOM  8855  OH2 WAT W 673   32.333  39.224  -4.953  1.00  0.00        O
ATOM  8856  OH2 WAT W 674   60.357  61.090 -18.144  1.00  0.00        O
ATOM  8857  OH2 WAT W 675   63.176  58.695  -1.449  1.00  0.00        O
ATOM  8858  OH2 WAT W 676   60.718  61.111  -3.563  1.00  0.00        O
ATOM  8859  OH2 WAT W 677   46.652  74.662   7.739  1.00  0.00        O
ATOM  8860  OH2 WAT W 678   54.971  57.680  -0.492  1.00  0.00        O
ATOM  8861  OH2 WAT W 679   30.170  75.107 -29.270  1.00  0.00        O
ATOM  8862  OH2 WAT W 680   58.915  56.852  -1.451  1.00  0.00        O
ATOM  8863  OH2 WAT W 681   58.699  52.771  -0.065  1.00  0.00        O
ATOM  8864  OH2 WAT W 682   63.032  61.194  -4.945  1.00  0.00        O
ATOM  8865  OH2 WAT W 683   27.869  48.760  12.114  1.00  0.00        O
ATOM  8866  OH2 WAT W 684   66.585  56.380 -20.256  1.00  0.00        O
ATOM  8867  OH2 WAT W 685   19.828  46.907 -14.377  1.00  0.00        O
ATOM  8868  OH2 WAT W 686   38.637  69.412 -38.139  1.00  0.00        O
ATOM  8869  OH2 WAT W 687   33.760  60.433  23.248  1.00  0.00        O
ATOM  8870  OH2 WAT W 688   39.618  55.795   3.003  1.00  0.00        O
ATOM  8871  OH2 WAT W 689   24.685  61.653   9.124  1.00  0.00        O
ATOM  8872  OH2 WAT W 690   16.854  57.352  13.005  1.00  0.00        O
ATOM  8873  OH2 WAT W 691   39.367  69.367 -35.449  1.00  0.00        O
ATOM  8874  OH2 WAT W 692   49.897  67.815   4.117  1.00  0.00        O
ATOM  8875  OH2 WAT W 693   27.764  53.504  20.003  1.00  0.00        O
ATOM  8876  OH2 WAT W 694   29.601  83.195   2.383  1.00  0.00        O
ATOM  8877  OH2 WAT W 695   28.124  91.130 -25.262  1.00  0.00        O
ATOM  8878  OH2 WAT W 696   46.063  77.857   9.463  1.00  0.00        O
ATOM  8879  OH2 WAT W 697   12.616  49.439  17.771  1.00  0.00        O
ATOM  8880  OH2 WAT W 698   81.174  68.674 -11.422  1.00  0.00        O
ATOM  8881  OH2 WAT W 699   41.447  44.919  -6.967  1.00  0.00        O
ATOM  8882  OH2 WAT W 700   45.661  67.945 -27.578  1.00  0.00        O
ATOM  8883  OH2 WAT W 701   14.270  50.705  24.207  1.00  0.00        O
ATOM  8884  OH2 WAT W 702   67.411  46.627  -1.397  1.00  0.00        O
ATOM  8885  OH2 WAT W 703    9.073  50.490   8.141  1.00  0.00        O
ATOM  8886  OH2 WAT W 704   48.445  40.966  -1.167  1.00  0.00        O
ATOM  8887  OH2 WAT W 705   17.965  74.633   3.936  1.00  0.00        O
ATOM  8888  OH2 WAT W 706   44.849  55.258 -18.439  1.00  0.00        O
ATOM  8889  OH2 WAT W 707   83.509  66.541 -15.446  1.00  0.00        O
ATOM  8890  OH2 WAT W 708   48.836  69.219 -36.853  1.00  0.00        O
ATOM  8891  OH2 WAT W 709   51.740  70.392 -38.053  1.00  0.00        O
ATOM  8892  OH2 WAT W 710   29.670  72.514  34.334  1.00  0.00        O
ATOM  8893  OH2 WAT W 711   37.551  61.588 -32.581  1.00  0.00        O
ATOM  8894  OH2 WAT W 712   57.368  49.094  21.323  1.00  0.00        O
ATOM  8895  OH2 WAT W 713   42.954  59.615 -31.428  1.00  0.00        O
ATOM  8896  OH2 WAT W 714   32.002  34.493  -3.286  1.00  0.00        O
ATOM  8897  OH2 WAT W 715   37.059  59.240 -33.582  1.00  0.00        O
ATOM  8898  OH2 WAT W 716   61.585  59.248  14.620  1.00  0.00        O
ATOM  8899  OH2 WAT W 717   40.232  56.409 -18.976  1.00  0.00        O
ATOM  8900  OH2 WAT W 718   47.491  87.686 -44.193  1.00  0.00        O
ATOM  8901  OH2 WAT W 719   61.744  76.681 -10.413  1.00  0.00        O
ATOM  8902  OH2 WAT W 720   79.481  50.956 -11.440  1.00  0.00        O
ATOM  8903  OH2 WAT W 721   37.564  51.745 -18.481  1.00  0.00        O
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ATOM	8904	OH2	WAT	W	722	25.700	52.288	13.042	1.00	0.00	O
ATOM	8905	OH2	WAT	W	723	69.556	64.080	-28.582	1.00	0.00	O
ATOM	8906	OH2	WAT	W	724	72.922	66.794	-10.027	1.00	0.00	O
ATOM	8907	OH2	WAT	W	725	42.702	56.558	2.475	1.00	0.00	O
ATOM	8908	OH2	WAT	W	726	56.024	65.323	-36.107	1.00	0.00	O
ATOM	8909	OH2	WAT	W	727	17.862	66.380	28.012	1.00	0.00	O
ATOM	8910	OH2	WAT	W	728	11.723	63.777	-16.969	1.00	0.00	O
ATOM	8911	OH2	WAT	W	729	35.297	86.417	-17.891	1.00	0.00	O
ATOM	8912	OH2	WAT	W	730	9.747	60.412	-20.401	1.00	0.00	O
ATOM	8913	OH2	WAT	W	731	11.666	48.540	-2.453	1.00	0.00	O
ATOM	8914	OH2	WAT	W	732	40.620	57.107	31.023	1.00	0.00	O
ATOM	8915	OH2	WAT	W	733	39.781	53.162	36.395	1.00	0.00	O
ATOM	8916	OH2	WAT	W	734	49.828	47.378	28.831	1.00	0.00	O
ATOM	8917	OH2	WAT	W	735	24.121	34.445	15.342	1.00	0.00	O
ATOM	8918	OH2	WAT	W	736	59.484	51.068	24.851	1.00	0.00	O
ATOM	8919	OH2	WAT	W	737	38.048	83.338	-1.088	1.00	0.00	O
ATOM	8920	OH2	WAT	W	738	13.039	51.659	-12.221	1.00	0.00	O
ATOM	8921	OH2	WAT	W	739	48.491	50.816	35.090	1.00	0.00	O
ATOM	8922	OH2	WAT	W	740	48.024	41.657	-5.539	1.00	0.00	O
ATOM	8923	OH2	WAT	W	741	22.233	40.924	-11.345	1.00	0.00	O
ATOM	8924	OH2	WAT	W	742	16.130	36.463	16.265	1.00	0.00	O
ATOM	8925	OH2	WAT	W	743	22.459	68.166	20.245	1.00	0.00	O
ATOM	8926	OH2	WAT	W	744	72.044	47.327	-17.973	1.00	0.00	O
ATOM	8927	OH2	WAT	W	745	40.850	85.379	-11.971	1.00	0.00	O
ATOM	8928	OH2	WAT	W	746	56.754	46.779	15.696	1.00	0.00	O
ATOM	8929	OH2	WAT	W	747	51.912	64.114	24.561	1.00	0.00	O
ATOM	8930	OH2	WAT	W	748	56.583	58.561	1.343	1.00	0.00	O
ATOM	8931	OH2	WAT	W	749	57.375	58.590	5.505	1.00	0.00	O
ATOM	8932	OH2	WAT	W	750	75.112	64.404	-16.409	1.00	0.00	O
ATOM	8933	OH2	WAT	W	751	14.677	70.800	-23.130	1.00	0.00	O
ATOM	8934	OH2	WAT	W	752	12.928	52.332	-15.040	1.00	0.00	O
ATOM	8935	OH2	WAT	W	753	12.990	62.106	-25.014	1.00	0.00	O
ATOM	8936	OH2	WAT	W	754	23.320	87.353	-32.623	1.00	0.00	O
ATOM	8937	OH2	WAT	W	755	66.467	81.834	-14.275	1.00	0.00	O
ATOM	8938	OH2	WAT	W	756	47.246	61.563	-28.821	1.00	0.00	O
ATOM	8939	OH2	WAT	W	757	52.548	71.145	5.916	1.00	0.00	O
ATOM	8940	OH2	WAT	W	758	40.996	56.024	-33.206	1.00	0.00	O
ATOM	8941	OH2	WAT	W	759	39.620	39.909	19.999	1.00	0.00	O
ATOM	8942	OH2	WAT	W	760	44.780	55.346	36.103	1.00	0.00	O
ATOM	8943	OH2	WAT	W	761	13.957	62.533	14.560	1.00	0.00	O
ATOM	8944	OH2	WAT	W	762	39.951	39.546	-0.340	1.00	0.00	O
ATOM	8945	OH2	WAT	W	763	32.665	69.632	22.105	1.00	0.00	O
ATOM	8946	OH2	WAT	W	764	42.544	43.608	-11.932	1.00	0.00	O
ATOM	8947	OH2	WAT	W	765	26.986	41.823	-27.491	1.00	0.00	O
ATOM	8948	OH2	WAT	W	766	19.699	41.810	-5.043	1.00	0.00	O
ATOM	8949	OH2	WAT	W	767	13.702	60.846	7.536	1.00	0.00	O
ATOM	8950	OH2	WAT	W	768	46.607	45.815	11.519	1.00	0.00	O
ATOM	8951	OH2	WAT	W	769	43.014	68.693	-30.021	1.00	0.00	O
ATOM	8952	OH2	WAT	W	770	24.369	54.092	-8.366	1.00	0.00	O
ATOM	8953	OH2	WAT	W	771	47.715	70.197	-16.593	1.00	0.00	O
ATOM	8954	OH2	WAT	W	772	58.809	93.869	-27.437	1.00	0.00	O
ATOM	8955	OH2	WAT	W	773	31.147	79.134	-42.936	1.00	0.00	O
ATOM	8956	OH2	WAT	W	774	22.049	42.744	-13.274	1.00	0.00	O
ATOM	8957	OH2	WAT	W	775	52.881	92.375	-23.179	1.00	0.00	O
ATOM	8958	OH2	WAT	W	776	60.191	51.118	20.150	1.00	0.00	O
ATOM	8959	OH2	WAT	W	777	60.990	56.042	1.994	1.00	0.00	O
ATOM	8960	OH2	WAT	W	778	19.496	58.666	-36.837	1.00	0.00	O
ATOM	8961	OH2	WAT	W	779	30.066	50.044	12.371	1.00	0.00	O
ATOM	8962	OH2	WAT	W	780	26.332	66.843	19.829	1.00	0.00	O
ATOM	8963	OH2	WAT	W	781	12.053	41.630	19.820	1.00	0.00	O
ATOM	8964	OH2	WAT	W	782	69.448	77.276	-34.137	1.00	0.00	O

ATOM	8965	OH2	WAT	W	783	16.598	43.024	-2.692	1.00	0.00	O
ATOM	8966	OH2	WAT	W	784	35.778	59.983	-37.738	1.00	0.00	O
ATOM	8967	OH2	WAT	W	785	33.877	66.335	-42.421	1.00	0.00	O
ATOM	8968	OH2	WAT	W	786	57.155	36.347	-14.319	1.00	0.00	O
ATOM	8969	OH2	WAT	W	787	37.130	37.634	2.914	1.00	0.00	O
ATOM	8970	OH2	WAT	W	788	51.229	66.915	8.358	1.00	0.00	O
ATOM	8971	OH2	WAT	W	789	10.809	51.683	21.412	1.00	0.00	O
ATOM	8972	OH2	WAT	W	790	30.272	87.456	-15.075	1.00	0.00	O
ATOM	8973	OH2	WAT	W	791	42.000	55.040	-17.314	1.00	0.00	O
ATOM	8974	OH2	WAT	W	792	48.599	76.287	8.352	1.00	0.00	O
ATOM	8975	OH2	WAT	W	793	29.556	75.889	10.811	1.00	0.00	O
ATOM	8976	OH2	WAT	W	794	42.983	98.265	-37.032	1.00	0.00	O
ATOM	8977	OH2	WAT	W	795	23.457	66.161	9.814	1.00	0.00	O
ATOM	8978	OH2	WAT	W	796	64.821	79.071	-1.641	1.00	0.00	O
ATOM	8979	OH2	WAT	W	797	43.476	40.517	-22.898	1.00	0.00	O
ATOM	8980	OH2	WAT	W	798	59.380	49.094	2.175	1.00	0.00	O
ATOM	8981	OH2	WAT	W	799	68.965	41.765	-17.204	1.00	0.00	O
ATOM	8982	OH2	WAT	W	800	24.786	71.958	-39.859	1.00	0.00	O
ATOM	8983	OH2	WAT	W	801	23.791	48.577	-24.248	1.00	0.00	O
ATOM	8984	OH2	WAT	W	802	46.992	68.200	-24.723	1.00	0.00	O
ATOM	8985	OH2	WAT	W	803	53.469	53.184	-29.954	1.00	0.00	O
ATOM	8986	OH2	WAT	W	804	24.847	34.448	35.644	1.00	0.00	O
ATOM	8987	OH2	WAT	W	805	13.398	52.665	25.851	1.00	0.00	O
ATOM	8988	OH2	WAT	W	806	51.565	44.643	2.883	1.00	0.00	O
ATOM	8989	OH2	WAT	W	807	21.403	55.666	39.696	1.00	0.00	O
ATOM	8990	OH2	WAT	W	808	64.124	70.731	-5.187	1.00	0.00	O
ATOM	8991	OH2	WAT	W	809	46.964	89.865	-23.190	1.00	0.00	O
ATOM	8992	OH2	WAT	W	810	8.004	53.162	-7.590	1.00	0.00	O
ATOM	8993	OH2	WAT	W	811	22.178	80.917	-42.185	1.00	0.00	O
ATOM	8994	OH2	WAT	W	812	63.791	65.738	-30.505	1.00	0.00	O
ATOM	8995	OH2	WAT	W	813	18.344	48.705	-19.772	1.00	0.00	O
ATOM	8996	OH2	WAT	W	814	59.393	76.939	-4.266	1.00	0.00	O
ATOM	8997	OH2	WAT	W	815	21.046	84.137	-12.343	1.00	0.00	O
ATOM	8998	OH2	WAT	W	816	55.637	67.379	13.249	1.00	0.00	O
ATOM	8999	OH2	WAT	W	817	19.129	52.421	-31.535	1.00	0.00	O
ATOM	9000	OH2	WAT	W	818	67.310	85.719	-35.909	1.00	0.00	O
ATOM	9001	OH2	WAT	W	819	29.648	75.153	22.302	1.00	0.00	O
ATOM	9002	OH2	WAT	W	820	32.734	84.320	0.358	1.00	0.00	O
ATOM	9003	OH2	WAT	W	821	45.616	65.480	-28.642	1.00	0.00	O
ATOM	9004	OH2	WAT	W	822	12.769	62.208	-2.408	1.00	0.00	O
ATOM	9005	OH2	WAT	W	823	25.815	63.461	13.819	1.00	0.00	O
ATOM	9006	OH2	WAT	W	824	28.537	35.024	32.178	1.00	0.00	O
ATOM	9007	OH2	WAT	W	825	36.003	68.685	23.484	1.00	0.00	O
ATOM	9008	OH2	WAT	W	826	31.941	33.882	17.234	1.00	0.00	O
ATOM	9009	OH2	WAT	W	827	41.632	84.306	-2.386	1.00	0.00	O
ATOM	9010	OH2	WAT	W	828	40.025	100.327	-31.898	1.00	0.00	O
ATOM	9011	OH2	WAT	W	829	28.679	63.614	10.610	1.00	0.00	O
ATOM	9012	OH2	WAT	W	830	54.710	82.573	-44.566	1.00	0.00	O
ATOM	9013	OH2	WAT	W	831	69.910	53.740	-10.499	1.00	0.00	O
ATOM	9014	OH2	WAT	W	832	36.929	79.493	-2.515	1.00	0.00	O
ATOM	9015	OH2	WAT	W	833	12.241	64.675	-12.654	1.00	0.00	O
ATOM	9016	OH2	WAT	W	834	39.116	50.345	36.275	1.00	0.00	O
ATOM	9017	OH2	WAT	W	835	27.945	44.812	38.120	1.00	0.00	O
ATOM	9018	OH2	WAT	W	836	27.807	38.775	-22.548	1.00	0.00	O
ATOM	9019	OH2	WAT	W	837	72.318	95.802	-31.265	1.00	0.00	O
ATOM	9020	OH2	WAT	W	838	76.337	47.098	-11.656	1.00	0.00	O
ATOM	9021	OH2	WAT	W	839	21.476	49.083	-38.816	1.00	0.00	O
ATOM	9022	OH2	WAT	W	840	23.077	75.197	-30.035	1.00	0.00	O
ATOM	9023	OH2	WAT	W	841	21.007	31.697	31.656	1.00	0.00	O
ATOM	9024	OH2	WAT	W	842	29.486	42.250	-28.768	1.00	0.00	O
ATOM	9025	OH2	WAT	W	843	42.674	47.359	-27.307	1.00	0.00	O

ATOM	9026	OH2	WAT	W	844	55.875	51.903	27.280	1.00	0.00		O
ATOM	9027	OH2	WAT	W	845	31.320	58.788	-40.699	1.00	0.00		O
ATOM	9028	OH2	WAT	W	846	18.413	43.157	27.335	1.00	0.00		O
ATOM	9029	OH2	WAT	W	847	62.202	81.779	-43.989	1.00	0.00		O
ATOM	9030	OH2	WAT	W	848	7.598	54.603	17.501	1.00	0.00		O
ATOM	9031	OH2	WAT	W	849	18.093	41.894	25.173	1.00	0.00		O
ATOM	9032	OH2	WAT	W	850	27.410	82.732	5.773	1.00	0.00		O
ATOM	9033	OH2	WAT	W	851	38.754	53.282	1.951	1.00	0.00		O
ATOM	9034	OH2	WAT	W	852	11.935	67.433	2.649	1.00	0.00		O
ATOM	9035	OH2	WAT	W	853	4.365	56.736	-6.558	1.00	0.00		O
ATOM	9036	OH2	WAT	W	854	22.251	77.051	8.631	1.00	0.00		O
ATOM	9037	OH2	WAT	W	855	25.871	88.232	-42.851	1.00	0.00		O
ATOM	9038	OH2	WAT	W	856	10.526	62.685	-12.061	1.00	0.00		O
ATOM	9039	OH2	WAT	W	857	44.547	72.288	-44.586	1.00	0.00		O
ATOM	9040	OH2	WAT	W	858	37.290	40.031	26.372	1.00	0.00		O
ATOM	9041	OH2	WAT	W	859	23.413	89.021	-37.997	1.00	0.00		O
ATOM	9042	OH2	WAT	W	860	70.125	62.786	-24.288	1.00	0.00		O
ATOM	9043	OH2	WAT	W	861	23.006	64.510	18.349	1.00	0.00		O
ATOM	9044	OH2	WAT	W	862	67.072	38.620	-9.608	1.00	0.00		O
ATOM	9045	OH2	WAT	W	863	65.525	87.848	-41.036	1.00	0.00		O
ATOM	9046	OH2	WAT	W	864	13.974	43.632	28.969	1.00	0.00		O
ATOM	9047	OH2	WAT	W	865	13.517	48.343	1.249	1.00	0.00		O
ATOM	9048	OH2	WAT	W	866	55.479	69.588	-37.978	1.00	0.00		O
ATOM	9049	OH2	WAT	W	867	26.978	47.633	-23.933	1.00	0.00		O
ATOM	9050	OH2	WAT	W	868	69.691	82.317	-33.913	1.00	0.00		O
ATOM	9051	OH2	WAT	W	869	12.132	62.283	22.698	1.00	0.00		O
ATOM	9052	OH2	WAT	W	870	30.805	29.810	5.462	1.00	0.00		O
ATOM	9053	OH2	WAT	W	871	19.362	36.440	22.388	1.00	0.00		O
ATOM	9054	OH2	WAT	W	872	27.607	86.561	-14.749	1.00	0.00		O
ATOM	9055	OH2	WAT	W	873	66.284	50.407	0.526	1.00	0.00		O
ATOM	9056	OH2	WAT	W	874	28.556	64.834	14.855	1.00	0.00		O
ATOM	9057	OH2	WAT	W	875	52.010	60.249	28.130	1.00	0.00		O
ATOM	9058	OH2	WAT	W	876	52.467	72.620	18.424	1.00	0.00		O
ATOM	9059	OH2	WAT	W	877	47.028	75.056	-26.303	1.00	0.00		O
ATOM	9060	OH2	WAT	W	878	65.388	81.563	-4.616	1.00	0.00		O
ATOM	9061	OH2	WAT	W	879	48.555	72.298	-26.138	1.00	0.00		O
ATOM	9062	OH2	WAT	W	880	59.805	68.884	-38.756	1.00	0.00		O
ATOM	9063	OH2	WAT	W	881	22.839	85.133	-16.960	1.00	0.00		O
ATOM	9064	OH2	WAT	W	882	25.891	76.368	-38.719	1.00	0.00		O
ATOM	9065	OH2	WAT	W	883	20.306	74.098	-29.005	1.00	0.00		O
ATOM	9066	OH2	WAT	W	884	59.313	55.625	27.048	1.00	0.00		O
ATOM	9067	OH2	WAT	W	885	44.374	87.552	-15.607	1.00	0.00		O
ATOM	9068	OH2	WAT	W	886	63.968	77.026	-40.510	1.00	0.00		O
ATOM	9069	OH2	WAT	W	887	14.193	58.389	16.309	1.00	0.00		O
ATOM	9070	OH2	WAT	W	888	13.991	57.800	18.963	1.00	0.00		O
ATOM	9071	OH2	WAT	W	889	24.433	63.725	11.590	1.00	0.00		O
ATOM	9072	OH2	WAT	W	890	28.173	39.815	11.264	1.00	0.00		O
ATOM	9073	OH2	WAT	W	891	28.969	82.087	-35.700	1.00	0.00		O
ATOM	9074	OH2	WAT	W	892	12.334	55.892	-15.106	1.00	0.00		O
ATOM	9075	OH2	WAT	W	893	81.492	67.210	-13.715	1.00	0.00		O
ATOM	9076	OH2	WAT	W	894	58.943	58.063	0.989	1.00	0.00		O
ATOM	9077	OH2	WAT	W	895	49.240	68.478	6.745	1.00	0.00		O
ATOM	9078	OH2	WAT	W	896	68.453	79.691	-28.505	1.00	0.00		O
ATOM	9079	OH2	WAT	W	897	26.063	32.733	28.695	1.00	0.00		O
ATOM	9080	OH2	WAT	W	898	32.825	69.554	24.592	1.00	0.00		O
ATOM	9081	OH2	WAT	W	899	28.004	102.786	-19.159	1.00	0.00		O
ATOM	9082	OH2	WAT	W	900	71.706	73.979	-29.110	1.00	0.00		O
ATOM	9083	OH2	WAT	W	901	79.308	50.637	-8.873	1.00	0.00		O
ATOM	9084	OH2	WAT	W	902	37.119	83.812	-3.965	1.00	0.00		O
ATOM	9085	OH2	WAT	W	903	59.380	52.104	2.479	1.00	0.00		O
ATOM	9086	OH2	WAT	W	904	19.831	84.498	-18.520	1.00	0.00		O

ATOM	9087	OH2	WAT	W	905	43.800	79.352	-21.525	1.00	0.00	O
ATOM	9088	OH2	WAT	W	906	57.934	52.938	26.177	1.00	0.00	O
ATOM	9089	OH2	WAT	W	907	16.972	57.508	-36.393	1.00	0.00	O
ATOM	9090	OH2	WAT	W	908	46.716	42.927	9.598	1.00	0.00	O
ATOM	9091	OH2	WAT	W	909	27.293	72.028	33.949	1.00	0.00	O
ATOM	9092	OH2	WAT	W	910	7.399	54.460	-10.010	1.00	0.00	O
ATOM	9093	OH2	WAT	W	911	24.567	52.467	43.509	1.00	0.00	O
ATOM	9094	OH2	WAT	W	912	49.872	47.054	-30.505	1.00	0.00	O
ATOM	9095	OH2	WAT	W	913	42.648	78.827	-29.498	1.00	0.00	O
ATOM	9096	OH2	WAT	W	914	27.560	88.968	-12.451	1.00	0.00	O
ATOM	9097	OH2	WAT	W	915	56.665	90.188	-43.623	1.00	0.00	O
ATOM	9098	OH2	WAT	W	916	13.988	44.952	26.828	1.00	0.00	O
ATOM	9099	OH2	WAT	W	917	69.599	84.021	-36.023	1.00	0.00	O
ATOM	9100	OH2	WAT	W	918	58.001	93.501	-25.084	1.00	0.00	O
ATOM	9101	OH2	WAT	W	919	64.750	70.415	-8.067	1.00	0.00	O
ATOM	9102	OH2	WAT	W	920	46.080	39.915	-0.024	1.00	0.00	O
ATOM	9103	OH2	WAT	W	921	37.037	37.401	24.945	1.00	0.00	O
ATOM	9104	OH2	WAT	W	922	52.328	68.609	4.799	1.00	0.00	O
ATOM	9105	OH2	WAT	W	923	17.944	51.019	38.085	1.00	0.00	O
ATOM	9106	OH2	WAT	W	924	15.329	77.248	-13.725	1.00	0.00	O
ATOM	9107	OH2	WAT	W	925	20.080	39.386	-12.345	1.00	0.00	O
ATOM	9108	OH2	WAT	W	926	49.590	45.658	30.987	1.00	0.00	O
ATOM	9109	OH2	WAT	W	927	46.966	72.548	-17.619	1.00	0.00	O
ATOM	9110	OH2	WAT	W	928	70.530	78.324	-25.996	1.00	0.00	O
ATOM	9111	OH2	WAT	W	929	58.528	52.925	4.642	1.00	0.00	O
ATOM	9112	OH2	WAT	W	930	35.511	55.482	-34.790	1.00	0.00	O
ATOM	9113	OH2	WAT	W	931	41.566	82.880	-28.827	1.00	0.00	O
ATOM	9114	OH2	WAT	W	932	48.139	66.187	26.918	1.00	0.00	O
ATOM	9115	OH2	WAT	W	933	27.688	67.687	11.673	1.00	0.00	O
ATOM	9116	OH2	WAT	W	934	39.791	81.980	-21.883	1.00	0.00	O
ATOM	9117	OH2	WAT	W	935	22.231	65.784	32.283	1.00	0.00	O
ATOM	9118	OH2	WAT	W	936	58.785	48.756	18.929	1.00	0.00	O
ATOM	9119	OH2	WAT	W	937	31.846	80.989	7.175	1.00	0.00	O
ATOM	9120	OH2	WAT	W	938	50.357	45.000	-24.797	1.00	0.00	O
ATOM	9121	OH2	WAT	W	939	62.512	60.777	0.439	1.00	0.00	O
ATOM	9122	OH2	WAT	W	940	67.855	75.395	-35.094	1.00	0.00	O
ATOM	9123	OH2	WAT	W	941	23.146	39.423	-15.577	1.00	0.00	O
ATOM	9124	OH2	WAT	W	942	35.988	94.020	-29.930	1.00	0.00	O
ATOM	9125	OH2	WAT	W	943	74.007	80.191	-11.042	1.00	0.00	O
ATOM	9126	OH2	WAT	W	944	41.099	81.809	-3.455	1.00	0.00	O
ATOM	9127	OH2	WAT	W	945	13.012	62.985	12.102	1.00	0.00	O
ATOM	9128	OH2	WAT	W	946	56.731	76.091	0.096	1.00	0.00	O
ATOM	9129	OH2	WAT	W	947	74.305	52.098	1.514	1.00	0.00	O
ATOM	9130	OH2	WAT	W	948	22.012	61.473	-34.863	1.00	0.00	O
ATOM	9131	OH2	WAT	W	949	77.405	65.439	-15.062	1.00	0.00	O
ATOM	9132	OH2	WAT	W	950	17.698	41.847	32.112	1.00	0.00	O
ATOM	9133	OH2	WAT	W	951	10.249	63.069	-15.024	1.00	0.00	O
ATOM	9134	OH2	WAT	W	952	45.901	79.927	4.907	1.00	0.00	O
ATOM	9135	OH2	WAT	W	953	14.666	46.936	32.185	1.00	0.00	O
ATOM	9136	OH2	WAT	W	954	34.450	77.326	12.201	1.00	0.00	O
ATOM	9137	OH2	WAT	W	955	47.528	40.258	5.987	1.00	0.00	O
ATOM	9138	OH2	WAT	W	956	18.746	39.516	-2.924	1.00	0.00	O
ATOM	9139	OH2	WAT	W	957	25.892	59.095	-38.859	1.00	0.00	O
ATOM	9140	OH2	WAT	W	958	10.667	57.925	-20.958	1.00	0.00	O
ATOM	9141	OH2	WAT	W	959	8.868	56.882	16.385	1.00	0.00	O
ATOM	9142	OH2	WAT	W	960	78.132	72.243	-10.244	1.00	0.00	O
ATOM	9143	OH2	WAT	W	961	23.897	82.874	-3.971	1.00	0.00	O
ATOM	9144	OH2	WAT	W	962	44.484	40.987	7.504	1.00	0.00	O
ATOM	9145	OH2	WAT	W	963	35.423	62.467	33.988	1.00	0.00	O
ATOM	9146	OH2	WAT	W	964	27.265	90.075	-31.712	1.00	0.00	O
ATOM	9147	OH2	WAT	W	965	74.755	77.389	-20.721	1.00	0.00	O

	ATOM	9148	OH2	WAT	W	966	49.089	42.037	8.287	1.00	0.00	O
	ATOM	9149	OH2	WAT	W	967	44.887	92.912	-25.033	1.00	0.00	O
	ATOM	9150	OH2	WAT	W	968	52.465	49.136	25.639	1.00	0.00	O
	ATOM	9151	OH2	WAT	W	969	9.657	53.649	-12.165	1.00	0.00	O
5	ATOM	9152	OH2	WAT	W	970	58.698	51.115	14.502	1.00	0.00	O
	ATOM	9153	OH2	WAT	W	971	51.871	50.475	27.678	1.00	0.00	O
	ATOM	9154	OH2	WAT	W	972	25.018	89.096	-25.145	1.00	0.00	O
	ATOM	9155	OH2	WAT	W	973	7.496	58.258	0.195	1.00	0.00	O
	ATOM	9156	OH2	WAT	W	974	11.522	58.486	19.993	1.00	0.00	O
10	ATOM	9157	OH2	WAT	W	975	18.602	60.933	-37.788	1.00	0.00	O
	ATOM	9158	OH2	WAT	W	976	46.005	60.116	-31.276	1.00	0.00	O
	ATOM	9159	OH2	WAT	W	977	5.372	57.741	6.747	1.00	0.00	O
	ATOM	9160	OH2	WAT	W	978	13.334	66.476	-11.620	1.00	0.00	O
	ATOM	9161	OH2	WAT	W	979	47.210	81.653	-17.119	1.00	0.00	O
15	ATOM	9162	OH2	WAT	W	981	29.419	65.681	12.431	1.00	0.00	O
	ATOM	9163	OH2	WAT	W	982	28.576	69.917	12.812	1.00	0.00	O
	ATOM	9164	OH2	WAT	W	983	33.300	68.977	16.903	1.00	0.00	O
	ATOM	9165	OH2	WAT	W	984	26.458	67.157	9.398	1.00	0.00	O
	ATOM	9166	OH2	WAT	W	985	32.012	71.165	13.558	1.00	0.00	O
20	ATOM	9167	OH2	WAT	W	986	25.611	66.324	17.380	1.00	0.00	O
	ATOM	9168	C1	NAG	C	1	58.306	45.038	12.884	1.00	0.00	C
	ATOM	9169	C2	NAG	C	1	59.529	44.683	13.738	1.00	0.00	C
	ATOM	9170	N2	NAG	C	1	60.626	45.582	13.432	1.00	0.00	N
25	ATOM	9171	C7	NAG	C	1	60.821	46.670	14.171	1.00	0.00	C
	ATOM	9172	O7	NAG	C	1	60.320	47.760	13.899	1.00	0.00	O
	ATOM	9173	C8	NAG	C	1	61.708	46.528	15.397	1.00	0.00	C
	ATOM	9174	C3	NAG	C	1	59.957	43.237	13.482	1.00	0.00	C
	ATOM	9175	O3	NAG	C	1	61.007	42.887	14.371	1.00	0.00	O
30	ATOM	9176	C4	NAG	C	1	58.775	42.293	13.686	1.00	0.00	C
	ATOM	9177	O4	NAG	C	1	59.153	40.971	13.331	1.00	0.00	O
	ATOM	9178	C5	NAG	C	1	57.593	42.746	12.824	1.00	0.00	C
	ATOM	9179	O5	NAG	C	1	57.240	44.112	13.139	1.00	0.00	O
	ATOM	9180	C6	NAG	C	1	56.355	41.902	13.057	1.00	0.00	C
35	ATOM	9181	O6	NAG	C	1	56.115	41.030	11.963	1.00	0.00	O
	ATOM	9182	C1	SWA	S	1	31.083	66.852	6.104	1.00	0.00	C
	ATOM	9183	O1	SWA	S	1	31.616	67.993	5.412	1.00	0.00	O
	ATOM	9184	C3	SWA	S	1	31.290	67.004	7.648	1.00	0.00	C
	ATOM	9185	N4	SWA	S	1	30.728	65.809	8.307	1.00	0.00	N
40	ATOM	9186	C5	SWA	S	1	29.253	65.674	8.135	1.00	0.00	C
	ATOM	9187	C6	SWA	S	1	28.949	65.502	6.622	1.00	0.00	C
	ATOM	9188	C2	SWA	S	1	29.552	66.691	5.818	1.00	0.00	C
	ATOM	9189	C9	SWA	S	1	31.281	65.713	9.651	1.00	0.00	C
	ATOM	9190	C8	SWA	S	1	32.647	66.446	9.597	1.00	0.00	C
	ATOM	9191	O13	SWA	S	1	33.714	65.532	9.832	1.00	0.00	O
45	ATOM	9192	C7	SWA	S	1	32.754	67.081	8.161	1.00	0.00	C
	ATOM	9193	O11	SWA	S	1	33.638	66.311	7.317	1.00	0.00	O
	ATOM	9194	C1	MPD	M	1	14.801	61.371	10.217	1.00	0.00	C
	ATOM	9195	C2	MPD	M	1	16.246	61.411	10.589	1.00	0.00	C
	ATOM	9196	O2	MPD	M	1	16.899	60.292	9.952	1.00	0.00	O
50	ATOM	9197	CM	MPD	M	1	16.897	62.682	10.105	1.00	0.00	C
	ATOM	9198	C3	MPD	M	1	16.386	61.237	12.121	1.00	0.00	C
	ATOM	9199	C4	MPD	M	1	17.772	60.909	12.678	1.00	0.00	C
	ATOM	9200	O4	MPD	M	1	17.676	59.909	13.666	1.00	0.00	O
	ATOM	9201	C5	MPD	M	1	18.376	62.135	13.353	1.00	0.00	C
55	ATOM	9202	ZN	ZN1	Z	1	34.563	64.336	8.063	1.00	0.00	Zn

Table 9 Data Collection Statistics

	MAD (Se-Met) of dGMII			Native dGMII		
	inflection	peak	Remote	High resolution	DMNJ complex	swainsonine complex
Wavelength (Å)	0.9790	0.9786	0.9770	1.0	1.0	1.54189
Effective resolution (Å)	2.14	2.14	2.14	1.76	1.69	1.87
Maximum resolution (Å)	1.70	1.70	1.70	1.4	1.5	1.87
Highest resolution shell	2.31-2.14	2.31-2.14	2.31-2.14	1.90-1.76	1.75-1.69	1.91-1.87
Temperature (K)	100	100	100	100	100	100
# unique reflections overall	59212	59092	59218	104565	114653	87386
shell	11288	11297	11296	19882	10722	5601
completeness (%) overall	99.7	99.8	99.8	97.0	97.8	99.7
shell	96.2	96.3	96.2	94.9	92.6	96.9
R_{merge}* overall	0.050	0.054	0.057	0.056	0.086	0.078
shell	0.086	0.093	0.105	0.127	0.186	0.452

*$R_{merge}=\Sigma_h\Sigma_i|I_i-<I>|/\Sigma_iI_i$, where $<I>$ is the average of equivalent reflections and the sum is extended over all observations, i, for all unique reflections, h.

Table 10. Refinement Statistics

	dGMII	dGMII-swainsonine complex	dGMII-DMNJ complex
Resolution (Å)	500-1.40	500-1.87	500-1.5
R_{cryst} (%)	19.30	18.10	19.69
R_{free} (%)	21.05	20.90	21.56
Atoms (#)	9194	9202	9199
Residues (#)	1014	1014	1014
Water molecules (#)	981	985	983
r.m.s.d .Bonds (Å)	0.005	0.005	0.006
r.m.s.d. Angles (°)	1.32	1.31	1.33
r.m.s.d. Improper dihedrals (°)	0.81	0.78	0.80
Average B-factors (Å^2)	15.8	19.4	15.8
Crossvalidated σ_A coordinate error (Å)	0.10	0.14	0.11

$R_{cryst}=\Sigma||F_o|-|F_c||/\Sigma|F_o|$, where F_o and F_c are the observed and calculated structure factors, respectively. For R_{free}, the sum is extended over a subset of reflections (~10%) excluded from all stages of refinement.

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